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A G R I C U L T U R A L P E S T I C I D E C H E M I C A L U S E S

(2nd Edition)

Supplement V

This supplement reflects changes and additions issued in preliminary notices numbered 67-104 through 67-155, plus numbers 67-159, 160, 165 and 166.

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CURRENT SERIAL RECORDS

Pesticides Regulation Division
Agricultural Research Service
United States Department of Agriculture

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This Supplement V to the second edition of the U.S.D.A. Summary of Registered Agricultural Pesticide Chemical Uses, which is a compilation of agricultural pesticide chemical uses registered with the U.S. Department of Agriculture, reflects additions, deletions, and revisions. The date of issue appears in the lower left-hand corner and the page it replaces is indicated in the lower right-hand corner.



Use Pesticides Safely
FOLLOW THE LABEL
U.S. DEPARTMENT OF AGRICULTURE

USE CHEMICALS SAFELY--FOLLOW LABEL DIRECTIONS

EXPLANATION OF CHARTS (Cont'd.)

All acceptable uses (dosage rates and related limitations) cannot be shown in the charts. The single dosages and the specific limitations given represent the maximum for safe use. In interpreting the charts, any use involving the dosage given with a longer time limit, or a lower dosage, with the same time limits, would be equally acceptable. A label submitted for registration which lists a higher dosage or more lenient limitations would require data to support such claims before the label could be registered.

USDA SUMMARY OF REGISTERED AGRICULTURAL PESTICIDE CHEMICAL USES
(2nd Edition)
I N D E X

Names in small letters: chemical names.

Names in small letters with an asterisk: coined common names.

Names capitalized: other names.

Prefixes alphabetized: any prefix consisting of two or more letters, such as bis, di, tri, etc.

Prefixes not alphabetized: numbers; any prefix consisting of only one letter such as O, N, S, P, etc.

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN*

PRINCIPAL FORMULATIONS: Emulsifiable concentrate containing 2 lbs. per gallon; 50% wettable powder; 75% wettable powder for seed treatment; 2.5% dusts and granular mixtures; 0.1% fertilizer mixtures

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bananas		lbs. actual/A. 3.0	Apply only to surface of ground around trees. When sprays are used, apply coarse spray at low pressure. Avoid contact with leaves.
Barley (seed)	0.02 grain 0.1 straw interim	1.0 oz./bu.	Do not use as food or feed.
Beans (seed)	0	2.0 oz./bu.	Do not use as food or feed.
Beans (green, snap, lima)	0	0.75	Apply in band 3 to 5 inches wide over seeding plants when $\frac{1}{2}$ to 1 inch tall. Do not apply within 60 days of feeding plants to dairy or meat animals.
Blackeyed Peas (seed)		2.0 oz./bu.	Do not use as food or feed.
Broccoli	0.1	3.0 1.0	Preplanting soil application. One application of aldrin or dieldrin during growing season. Preplanting soil application. Band treatment. One application of aldrin or dieldrin during growing season.
Brussels sprouts	0.1	0.25 lb./100 gal 3.0 1.0 0.25 lb./100 gal	Transplant water treatment. Preplanting soil application. One application of aldrin or dieldrin during growing season. Preplanting soil application. Band treatment. One application of aldrin or dieldrin during growing season. Transplant water treatment.

*1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo-exo-5,8-dimethanonaphthalene

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bush & Vine Fruits:		lbs. actual/A.	
Blackberries		5.0	Preplanting soil application or when no fruit is present. Double dosage on peat or muck soils.
Blueberries			
Boysenberries			
Cranberries	0.1		
Currants		0.25	Wet or dry bait formulation. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Dewberries			
Gooseberries			
Grapes	0.1		
Huckleberries			
Loganberries			
Raspberries			
Strawberries	0.1		
Youngberries			
Cabbage	0.1	3.0	Preplanting soil application. One application of aldrin or dieldrin during growing season.
		1.0	Preplanting soil applications. Band treatment. One application of aldrin or dieldrin during growing season.
		0.25 lb./100 gal.	Transplant water treatment.
Cantaloupes	0.1	0.5	7 days.
Cauliflower	0.1	3.0	Preplanting soil application. One application of aldrin or dieldrin during growing season.
		1.0	Preplanting soil applications. Band treatment. One application of aldrin or dieldrin during growing season.
		0.25 lb./100 gal.	Transplant water treatment.
Cherries	0.1	0.25	21 days. Treated areas should not be grazed by dairy or meat animals.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Citrus Fruits:	(interim)		
Grapefruit	0.05	5.0	One application to surface of ground under trees in spring.
Lemons	0.05		
Limes	0.05		
Oranges	0.05	2.5	Two applications to surface of ground under trees, one in fall, one in spring.
Tangerines	0.05		
Citrus Fruits:			
Kumquat		0.25	Foliage application, or wet or dry bait formulation. Do not apply within 30 days of harvest.
Tangeloes		5.0	Soil application. Do not contaminate fruit. Double dosage on peat or muck soils when no fruit is present.
Corn	0		
Field		2.0	Broadcast soil application during early summer for control of Hippelates eye gnats
Pop			Mix insecticide with top 3 inches of soil.
Sweet			
Corn (seed)	0	2.0 oz./bu.	Do not use as food or feed.
Cotton		1.5	Do not apply after bolls open. Do not graze meat or dairy animals in treated fields.
		2.0	Broadcast soil application during early summer for control of Hippelates eye gnats
			Mix insecticide with top 3 inches of soil.
Cotton (seed)		2.0 oz./bu.	Do not use as food or feed.
Cowpeas (seed)	0	2.0 oz./bu.	Do not use as food or feed.
Cranberries	0.1	0.25	21 days. Treated areas should not be grazed by dairy or meat animals.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cucumbers	0.1	3.0	Preplanting soil application. One application of aldrin or dieldrin during growing season.
		1.0	Band treatment. One application of aldrin or dieldrin during the growing season.
Cucumber (seed)		1 oz./bu.	Do not use for food or feed purposes.
Deciduous Fruits and Nuts:			
Almonds		5.0	Soil application when no fruit is present.
Cashews			Double dosage on peat or muck soils.
Cherries	0.1		
Chestnuts		0.25	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory nuts			
Nectarines	0.1		
Olives			
Peaches	0.1		
Pecans			
Persimmons			
Plums	0.1		
Pomegranate			
Prunes	0.1		
Walnuts			
Eggplants	0.1	0.5	3 days.
Field, Fiber & Forage Crops:			
Buckwheat		5.0	Preplanting soil application or at time of planting or transplanting. Double dosage on peat or muck soils.
Corn	0		
Cotton			
Flax			
Hops		0.25	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Popcorn	0		
Safflower			
Sugarcane			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Flax		0.25	Do not feed to dairy animals within 28 days after treatment. Do not feed to meat animals.
Grapes	0.1	0.25	7 days. Treated areas should not be grazed by dairy or meat animals.
Lettuce	0.1	3.0	Preplant soil use. One application of aldrin or dieldrin during growing season.
		$\frac{1}{4}$ /100 gal.	Transplant application.
Lima Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Mangoes	0.1	0.25	21 days. Treated areas should not be grazed by dairy or meat animals.
Mint		5.0	Preplanting soil application or just prior to fall or spring discing or harrowing in old planting.
Muskmelons	0.1	0.5	7 days.
Nectarines	0.1	0.25	21 days. Treated areas should not be grazed by dairy or meat animals.
Oats (seed)	0.02 grain 0.1 straw interim	1.0 oz./bu.	Do not use as food or feed.
Peaches	0.1	0.25	21 days. Treated areas should not be grazed by dairy or meat animals.
Peanuts (seed)	0	2.0 oz./bu.	Do not use as food or feed.
Peas (seed)	0	2.0 oz./bu.	Do not use as food or feed.
Peppers	0.1	0.5	3 days.
Pimentoes	0.1	0.5	3 days.
Pineapples	0.1	2.0	30 days. Do not feed husks to livestock.
		10.0	Preplanting soil treatment.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Potatoes	0.1	0.5	No limitation.
Plums	0.1	0.25	21 days.
Prunes	0.1	0.25	21 days.
Pumpkins	0.1	0.5	7 days.
Rice (seed)	0.05 grain 0.1 straw interim	4.0 oz./bu.	Do not use as food or feed.
Rye (seed)	0.02 grain 0.1 straw interim	2.0 oz./bu.	Do not use as food or feed.
Safflower (seed)		2.0 oz./100 lbs.	Do not use treated seed for food, feed or oil.
Sorghum (grain & forage)	0	0.125	21 days. Single application.
		0.25	30 days. Single application.
		3.0	Preplanting soil application.
Sorghum (seed)	0	2.0 oz./bu.	Do not use as food or feed.
Soybeans (seed)	0	2.0 oz./bu.	Do not use as food, feed, or oil.
Squash Summer	0.1	3.0	Preplanting soil application. One application of aldrin or dieldrin during the growing season.
		1.0	Row application (soil). One application of aldrin or dieldrin during the growing season.
Summer (seed)		1 oz./bu.	Do not use for food or feed purposes.
Winter	0.1	0.5	7 days.
Sweet potatoes	0.1	0.5	No time limitations.
Tomatoes	0.1	0.5	1 day.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ALDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Tropical Fruits:			
Avocados		5.0	Soil application when no fruit is present.
Guavas			Double dosage on peat or muck soils.
Mangoes	0.1		
Papayas		0.25	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Passion fruit			
Vegetables:			
Asparagus	0.1	5.0	Preplanting soil application, at time of planting or transplanting, or before edible parts start to form. Do not apply to land which will be planted in potatoes.
Beans	0		
Cantaloupes	0.1		
Celery	0.1		
Corn	0		
Eggplants	0.1	0.25	Wet or dry bait formulations. Apply to soil around base of plant. Do not contaminate edible parts. Do not apply within 30 days of harvest.
Muskmelons	0.1		
Okra			
Peppers	0.1		
Pimentoes	0.1		
Pumpkins	0.1		
Squash (winter)	0.1		
Tomatoes	0.1		
Watermelons	0.1		
Wheat (seed)	0.02 grain 0.1 straw interim	2.0 oz./bu.	Do not use as food or feed.
Agricultural Premises:			
Greenhouse		6.0	Preplanting soil application or at time of planting or transplanting.
Imported Fire Ant Control		2.0	Apply to uncultivated land or when no food crops are present. Repeat in 10 days if necessary.
		0.25% (in water) 1.5% dust	Mound treatment. Thoroughly saturate each mound. Mound treatment. Open mound and mix 2 cups of dust with soil. Apply a band of dust 2 ft. wide around the base of mound.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,1-BIS (CHLOROPHENYL)-2,2,2-TRICHLOROETHANOL*

PRINCIPAL FORMULATIONS: 18.5% wettable powder; 18.5% emulsifiable concentrate containing 1.91 lbs. of technical "Kelthane" per gallon (1.62 lbs. of active ingredient per gallon)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds		4.0	14 days. Do not feed treated hulls to livestock. or Do not apply after nuts begin to form (in this case hulls may be fed to livestock).
Apples	5.0	4.5	7 days.
Apricots	10.0	3.2	14 days.
Avocadoes		4.0	Apply before fruit forms or after harvest only.
Beans			
Dry	5.0	0.6 (spray)	7 days. Do not feed treated vines to meat or dairy animals.
Green		1.5 (dust)	
Lima		1.0 (spray)	California only. 45 days. Do not feed treated vines or forage to dairy animals or animals being finished for slaughter.
Beans			
Dry	5.0	0.6 (spray)	45 days. Do not feed treated vines to meat or dairy animals.
Blackberries	5.0	1.2	2 days.
Boysenberries	5.0	1.2	2 days.
Bushnuts	5.0	4.0	14 days.
Butternuts	5.0	4.0	14 days.
Cantaloupes	5.0	0.6 (spray) 1.5 (dust)	2 days.
Cherries	5.0	3.2	7 days. Do not repeat application within 30 days.

*Proprietary name: "Kelthane"

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

1,1-BIS (CHLOROPHENYL)-2,2,2-TRICHLOROETHANOL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Chestnuts	5.0	4.0	14 days.
Citrus (all)	10.0	8.0	7 days.
Corn (Field corn only)		1.6	Do not apply after ears begin to form. Do not ensile treated corn or use it as forage.
Cotton	0.1 (on seed)	1.6	14 days. Do not graze treated fields by meat or dairy animals.
Crabapples	5.0	4.5	7 days.
Cucumbers	5.0	0.6 (spray) 1.5 (dust)	2 days.
Dewberries	5.0	1.2	2 days.
Eggplants	5.0	0.8 (spray) 1.5 (dust)	2 days.
Figs	5.0	2.0	7 days. Do not repeat application within 30 days.
Grapes	5.0	1.2 (spray) 1.5 (dust)	7 days.
Hops	30.0	1.2 (spray) 1.5 (dust)	7 days.
Loganberries	5.0	1.2	2 days.
Melons	5.0	0.6 (spray) 1.5 (dust)	2 days.
Mint			
Peppermint Hay	25 (hay)	1.25	Do not apply within 30 days of harvest. Do not make more than one application per crop per season. Do not feed treated hay or spent hay to livestock.
Spearmint Hay	25 (hay)		
Nectarines	10.0	3.2	14 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBARYL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Okra	10	2.0	No time limitations.
Olives	10	8.0	No time limitations.
Parsley	12	2.0	14 days.
Parsnips	5	2.0	3 days.
Peaches	10	8.0	1 day.
Peanuts	5 (on pea- nuts) 100 (hay)	1.5	No time limitations.
Pears	10	12.0	1 day.
Peas	10 (peas with pods) 100 (forage)	1.5	No time limitations.
Pecans		10.0	Do not apply after husk-split.
Peppers	10	4.0	No time limitations.
Plums	10	6.0	1 day.
Potatoes		2.0	Foliage application only.
Prunes	10	6.0	1 day.
Pumpkins	10	1.0	No time limitations.
Radishes	5	2.0	3 days.
Raspberries	12	2.0	7 days.
Rice	5 (grain) 100 (straw)	2.0	14 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBARYL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Rutabagas	5	2.0	3 days.
Salsify	5 (roots) 10 (tops)	2.0	Do not apply within 3 days of harvest. Do not apply within 14 days of harvest if tops are to be used as food or feed.
Small Grains:			
Barley	0	1.0	Do not apply after boot stage (when grain heads are visible). No time limitation on grain forage for use as pasture or feed to livestock.
Oats	(grain)		
Rye			
Wheat	100 (straw)		
Sorghum	10 (grain) 100 (forage)	2.0	21 days for grain. No time limitations for forage.
Soybeans	5 (beans) 100 (forage & hay)	1.5	No time limitations.
Spinach	12	2.0	14 days.
Squash (summer and winter)	10	1.0	No time limitations.
Strawberries	10	2.0	1 day.
Sugar beets	100 (tops)	2.0	14 days.
Sugarcane		3.0	Do not apply within 30 days of harvest for processing.
Swiss chard	12	2.0	14 days.
Tomatoes	10	4.0	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENOTHON*

PRINCIPAL FORMULATIONS: 43.7% and 45% emulsifiable concentrate; 25% wettable powder; 2%, 3%, and 4% dusts; 10% granular; 43% flowable; liquid concentrate containing 0.125 lbs./gal.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	5.0 (fresh forage & hay)	1.0	Do not apply more than once between cuttings. Do not graze or cut for hay within 28 days after application.
Almonds	10.0 (on hulls)	2.5 + 160.0 lbs. of oil in water	Do not apply within 7 days of harvest if hulls are to be used as feed.
		1.8 (dust)	Do not apply within 7 days of harvest if hulls are to be used as feed.
		5.0	Apply 2 weeks after petal fall. Do not feed treated hulls to livestock.
Apples	0.8	1.25	30 days.
		4.5	Delayed dormant spray.
Apricots	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Beans (dry)		3.5	Use only on beans to be marketed as shelled dry beans. Do not feed treated vines or hulls to livestock.
		0.6 (dust)	Do not apply more than twice per season.
		0.5 (spray)	Do not graze or cut vines for hay within 21 days after application.
Beans (succulent)	0.8 (beans)	0.75 (spray)	7 days. Do not feed treated forage to livestock.
Snap	5.0	1.2 (dust)	
Lima	(vines)	0.6 (dust)	Do not apply within 7 days of harvest. Do not apply more than twice per season. Do not graze or cut vines for hay within 21 days after application.
		0.5 (spray)	

*O,O-diethyl S-p-chlorophenylthiomethyl phosphorodithioate
Proprietary name: "Trithion"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beets	0.8 (on tops & roots)	0.5 (spray) 1.2 (dust)	21 days if tops are to be used as food or feed.
Blackberries		1.0	Post-harvest application only.
Cantaloupes	0.8	1.0 (spray) 1.2 (dust)	5 days.
Cherries	0.8	1.8 (dust)	30 days.
		2.0 + 128.0 lbs. of oil in water	30 days.
Citrus:			
Grapefruit	2	5.0 + 160	30 days.
Lemons	(fruit)	lbs. of oil	
Limes		in water	
Oranges	10	2.5	No time limitations. Allow 30 days between applications.
Tangelos	(dehy-		
Tangerines	drated pulp & meal)	3.75	14 days. Allow 30 days between applications.
Clover	5.0 (fresh forage & hay)	1.0	Do not apply more than once between cutt- ings. Do not graze or cut for hay within 28 days after application.
Corn	0.2 (kernels & cobs with husks removed)	1.0	Do not apply more than once per season. Do not graze or cut for forage within 21 days after application.
	5.0 (forage)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cotton	0.2 (on seed)	1.0	Do not graze dairy or meat animals in treated fields.
Crabapples	0.8	1.25	30 days.
Cranberries		1.0	Postharvest application only.
Cucumbers	0.8	1.0	7 days.
Currants		1.0 (spray)	Postharvest application only.
Eggplants	0.8	1.0 (spray) 1.2 (dust)	7 days.
Figs	0.8	2.5	7 days.
Gooseberries		1.0	Postharvest application only.
Grapes	0.8	0.5 (spray) 1.0 (dust)	30 days.
Nectarines	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Olives	0.8	9.0 + 288.0 lbs. of oil in water	60 days.
Onions	0.8 (dry or green)	2.0	Soil application only to furrow at planting time.
Peaches	0.8	2.0 (in water)	30 days.
		2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pears	0.8	1.25	30 days.
Peas	0.8	0.75 (spray) 1.2 (dust)	7 days. Do not feed treated forage to livestock.
Pecans		2.5	Do not apply after husks open.
Peppers	0.8	1.0 (spray) 1.2 (dust)	7 days.
Pimentoses	0.8	1.0 (spray) 1.2 (dust)	7 days.
Plums	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Potatoes (white)		1.0 (spray) 1.2 (dust)	No time limitations.
Prunes	0.8	2.0 + 128.0 lbs. of oil in water	30 days.
		1.8 (dust)	30 days.
Quinces	0.8	1.25	30 days.
Raspberries		2.0	Postharvest application as a drench to the crown of plants.
Sorghum	2.0 (grain) 5.0 (forage)	1.0	Do not apply more than once per season. Do not graze or cut for forage within 21 days after application.
		0.5	Do not graze or cut for forage within 21 days after application. Do not apply more than twice per season.
Soybeans	0.8	0.75 (spray) 1.2 (dust)	7 days. Do not feed treated forage to livestock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CARBOPHENOTHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Spinach	0.8	0.5 (spray) 1.2 (dust)	21 days.
Squash Summer	0.8	1.0	7 days.
Strawberries	0.8	0.5 (spray) 1.2 (dust)	3 days.
Sugar beets	5.0 (tops & roots)	1.0 1.0	14 days. Apply to furrow at time of seeding.
Tomatoes	0.8	1.0 (spray) 1.2 (dust)	7 days.
Walnuts		2.0	Do not apply after husks open.
Watermelons	0.8	1.0 (spray) 1.2 (dust)	5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CDAA*

PRINCIPAL FORMULATIONS: 47.7% and 85% emulsifiable concentrates; 20% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beans (dry, lima and snap)		4	Preemergence application.
Cabbage		4	Preemergence application to direct seeded crop.
		6	Apply as directed spray immediately after transplanting.
Celery (Florida only)		4	Apply 2-3 days after transplanting and again three weeks after transplanting.
Corn		5	Preemergence application.
Onions		6.0	Preemergence application to direct seeded crop just before onions emerge or soon after transplanting.
		6.0	Post-emergence application after three true leaves have developed. Do not apply on green onions. Do not apply within 45 days of harvest. or Post-emergence granular application after three true leaves have developed and repeat at weekly intervals. Do not apply to green onions. Do not apply granular formulations within 30 days of harvest.
Peas (canning)		4	Preemergence application.
Potatoes		4.0	Apply to freshly tilled soil immediately after last cultivation or hilling.
		3.0	Preemergence application immediately after planting. Use in combination with CDEC.

*2-chloro-N,N-diallylacetamide; proprietary name: "Randox"

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLORANIL*

PRINCIPAL FORMULATIONS: 48%, 92%, and 96% wettable powders;
5%, 10%, and 50% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Broccoli		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.
Brussels sprouts		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.
Cabbage		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.
Celery		9.0	Plant bed soil treatment.
Collards		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.
Corn		2.0 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.
Cotton		2.0 oz./100 lbs.	Seed treatment only. Do not use treated seed for food, feed, or oil.
Cowpeas		2.0 oz./bu.	Seed treatment. Do not use treated seed for food, feed, or oil.
Flax		4.0 oz./100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.

*Tetrachloro-p-benzoquinone

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLORANIL

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Lettuce		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.
Mustard		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.
Oats		2.0 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.
Peanuts		1.5 oz./100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Rice		2.0 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.
Sorghum		2.0 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.
Soybeans		2.0 oz./100 lbs.	Seed treatment. Do not use treated seed for food, feed, or oil.
Spinach		2.88	Plant bed treatment until all usable plants are drawn. Where crop is started from seed sown in the field, until plants are thinned to a stand.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

CHLOROFORM

PRINCIPAL FORMULATIONS: Fumigant mixture containing 73.2% chloroform and 26.8% carbon disulfide

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Commodity Fumigation			
Grain:			
Barley	Exempt	8.0 gals./ 1000 bu.	Apply to grain in storage. No time limitations.
Corn	Exempt		
Oats	Exempt		
Popcorn	Exempt		
Rice	Exempt		
Rye	Exempt		
Sorghum	Exempt		
Wheat	Exempt		
Animals:			
Beef Cattle		50.0% screw-worm treatment	Formulated with other ingredients. Apply locally to wounds, cuts, scratches, etc. Repeat as necessary until wounds heal. Apply in and around ears for tick control.
Dairy Cattle			
Goats			
Sheep			
Swine			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2-CHLORO-N-ISOPROPYLACETANILIDE

PRINCIPAL FORMULATIONS: 65% and 80% wettable powder; 20% and 25% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn (field)		5	Preemergence. Do not graze or feed forage from treated areas.
Corn (sweet)	.1 (kernel and cob without husk)	5	Preemergence. Do not graze or feed forage from treated areas.
Cotton	.1 (cotton- seed)	5	Preemergence. Do not graze or feed forage from treated areas.
Soybeans (seed crop)		5	Preemergence. Do not graze or feed forage from treated areas. Do not use seed for feed, food, or oil.
Sugar beets	1.0 (tops)	3.9	East of Mississippi River. Preemergence. Do not graze or feed forage from treated areas.
	0.2 (roots)	3.9	West of Mississippi River. Preplant soil incorporation. Do not graze or feed forage from treated areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

3-[p-(p-CHLOROPHENOXY)-PHENYL]-1,1-DIMETHYLUREA*

PRINCIPAL FORMULATIONS: 50% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Soybeans	0.1	lbs. actual/A. 4.0	Preemergence. Do not graze livestock on treated fields. or Postemergence. Directed spray to soil from seedling to layby. Do not graze treated fields. Do not cut forage within 90 days after treatment.
		3.0	Postemergence. Overall from seedling to layby. Do not graze treated fields. Do not cut forage within 90 days after treatment.
Strawberry		4.0	Established, transplanted, or nursery stock. Apply over top after renovation of beds in fall. Repeat in spring. Do not make more than 2 applications per year. Do not apply within 60 days before harvest.

*Proprietary name: Tenoran

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Replaces page issued 10-1-66

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn Field	4 (cotton- seed)	lbs. actual/A. 1.5	Granular formulation only. Do not feed treated forage to dairy animals. Do not feed treated forage to meat animals within 90 days of slaughter.
		0.75%	With 5.0% mineral oil. Individual ear treatment. No limitation.
Corn (seed)		2.0 oz./bu.	Do not use as food or feed.
Cotton		3.0	Do not graze dairy animals or animals being finished for slaughter in treated fields.
	7	2.0	Apply with toxaphene as an undiluted (low volume) spray by aircraft. Do not graze dairy animals or animals being finished for slaughter on treated areas. Do not feed treated cotton trash to dairy animals or to animals being finished for slaughter.
Cotton (seed)		2.0 oz./bu.	Do not use as food or feed.
Cowpeas		10.0	Do not apply after pods start to form if pods are to be eaten. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Cowpeas (seed)	7	2.0 oz./bu.	Do not use as food or feed.
Cranberries		6.0	35 days.
Cucumbers			
Field	7	4.0	5 days. Excessive use may reduce plant growth.
Greenhouse	7	4.0	5 days.
	7	0.15 lbs./ 50,000 cu. ft.	Aerosol formulation. 5 days. Excessive use may reduce plant growth.
Currants		5.0	Do not apply after fruit begins to form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DDT

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Deciduous Fruits and Nuts:			
Almonds		25.0	Single soil application when no fruit is present.
Apples	7		
Apricots	7		
Cashews		0.5	Wet or dry bait formulations.
Cherries	7		
Chestnuts			
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory nuts			
Nectarines	7		
Olives			
Peaches	7		
Pears	7		
Pecans			
Persimmons			
Plums	7		
Pomegranate			
Prunes	7		
Quinces	7		
Walnuts			
Dewberries		2.0	Do not apply after edible parts start to form.
Eggplant	7	6.0	5 days. Remove excess residues by washing or brushing at time of harvest.
Endive	7	2.0	Do not apply after seedling stage.
Endive (greenhouse)	7	0.05 lbs./ 50,000 cu. ft.	Aerosol formulation. Do not apply after seedling stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL PYRIMIDYL (6)] THIOPHOSPHATE*

PRINCIPAL FORMULATIONS: 25% and 50% wettable powder; 25% and 48% emulsifiable concentrate; 4% and 13.5% dusts; 5%, 10% and 14% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa	40 on fresh alfalfa 10 on hay	lbs. actual/A.	
		0.5 (spray)	Dairy cattle, beef cattle, and sheep; (1) may be grazed immediately following application; (2) may be fed green alfalfa immediately following cutting; and (3) may be fed hay provided alfalfa is not cut for hay for 7 days following treatment. Do not spray livestock directly with either air or ground equipment.
			or
			Do not graze livestock on treated forage within 4 days after application. Do not cut for hay within 7 days after application.
		0.6 (dust)	Do not apply within 7 days of cutting or grazing by animals being finished for slaughter.
Almonds	3.0 (in or on hulls)	4.0	Preplanting broadcast soil application.
		1.5	Do not graze livestock within 2 days after application. Do not cut for hay within 10 days after application.
		6.0	No time limitations.
Apples	0.75	6.0	Full coverage spray. 14 days.
Apricots	0.75	4.0	Full coverage spray. 10 days.

*Proprietary name: "Diazinon"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

0,0-DIETHYL 0-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Bananas		lbs. actual/A. 2.0	Apply to soil around mats 3 to 4 times at monthly intervals. Application should be made with hand or ground equipment.
		0.0165 (oz. per stem)	Wettable powder. Apply to inner surface of polyethylene bag which is tied securely around newly developing stem and left in place until harvest.
		0.033 (oz. per stem)	Granular formulations. Apply in paper or plastic envelope and attach to stalk above bottom hand of newly developing stem. Then cover stem with polyethylene bag which is left in place until harvest.
Barley (seed)		2.0 oz./bu.	Do not use as food or feed.
Beans (pole) (snap)	0.75 (beans) 25.0 (forage) 10.0 (hay)	0.5 (spray) 0.75 (spray)	Do not apply within 7 days of bean harvest. Treated forage may be fed to livestock after 1 day following treatment or cut for hay after 4 days following treatment.
		1.4 (dust)	7 days.
		10.0	Preplanting broadcast soil application.
		2.0 (granular)	Apply in a 6 inch band over row when plants are $\frac{1}{2}$ to 1 inch tall.
Beans (seed)		2.0 oz./bu.	Do not use as food or feed.
Beets	0.75 (roots and tops)	10.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Celery	0.75	0.5	10 days.
		4.0	Preplanting broadcast soil application.
Cherries	0.75	5.0	Postharvest application only.
		4.0	10 days.
Clover	40 (fresh clover)	0.6	Dust or spray application. Do not apply within 7 days of cutting or grazing by animals being finished for slaughter.
	10 (clover hay)	4.0	Preplanting broadcast soil application.
Collards	0.75	0.5 (spray) 1.6 (dust)	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Corn	0.75 (on ker- nels & cob with husks removed)	1.25 (spray)	Corn may be picked immediately following last application. Corn forage may be fed to dairy cattle, beef cattle, and sheep. or No time limitations on corn (fresh) or (grain). Do not feed treated forage to livestock within 2 days after treatment.
	40.0 (on corn forage)	2.0	Corn may be picked immediately following last application. Do not feed forage to livestock within ten days following last application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn (cont.)	0.75 (on kernels & cob with husks removed) 40.0 (on corn forage)	1.6 (dust)	Do not apply within 2 days of harvest. Do not feed treated forage to animals being finished for slaughter within 2 days after treatment.
		1.0	Apply as a spray around base of plants, between time of planting and last cultivation.
		2.0	Soil application to furrow at time of planting, or in a 10 inch band over row at planting time or when crop begins to emerge.
		10.0	Preplanting broadcast soil application.
Corn (seed)		2 oz./bu.	Do not use as food or feed.
Cotton		1.0 (spray)	Do not apply within 14 days of harvest. Do not graze treated cotton fields or feed gin waste to livestock.
		1.0 (dust)	
Cotton (seed)		2 oz./bu.	Do not use as food or feed.
Cowpeas		4.0	Preplanting broadcast soil application.
Cranberries	0.75	3.0	7 days.
Cucumber	0.75	0.5 (spray)	7 days.
		1.6 (dust)	
		4.0	Preplanting broadcast soil application.
Endive	0.75	0.5	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Figs	0.75	4.0	Full coverage spray. 10 days.
		2.5	Full coverage spray. 5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Filberts		2.0	No time limitations. Repeat as necessary.
Grapefruit	0.75	10.0	21 days.
Grapes	0.75	1.0	10 days.
Grass hay	10.0	0.5 (in water)	Do not graze livestock on treated forage. Do not cut for hay within 21 days after treatment.
		0.5 (in oil)	Do not graze livestock on treated forage. Do not cut for hay within 30 days after treatment.
Hops	0.75	1.0 (spray) 2.0 (dust)	14 days.
Kale	0.75	0.5 (spray) 1.6 (dust)	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		4.0	Preplanting broadcast soil application.
Lemons	0.75	10.0	Full coverage spray. 21 days.
Lespedeza		4.0	Preplanting broadcast soil application.
Lettuce	0.75	0.5	10 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
		10.0	Preplanting broadcast soil application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O- [2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Lima beans	0.75 (beans) 25.0 (forage) 10.0 (hay)	lbs. actual/A.	
		0.5 (spray)	Do not apply within 7 days of bean harvest. Treated forage may be fed to livestock after 1 day following treatment or cut for hay after 4 days following treatment.
		0.75 (spray)	Do not apply within 7 days of bean harvest. Forage and hay may be fed to beef cattle, dairy cattle and sheep. Wait 4 days following treatment if forage is to be cut for hay.
		1.4 (dust)	7 days.
		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
Lima beans (seed)	0.75	4.0	Preplanting broadcast soil application.
		2.0 (granular)	Apply in a 6 inch band over row when plants are $\frac{1}{2}$ to 1 inch tall.
		2 oz./bu.	Do not use as food or feed.
Melons	0.75	0.75 (spray) 1.4 (dust)	3 days.
		4.0	Preplanting broadcast soil application.
Mung beans		2.0 (granular)	Apply in a 6 inch band over row when plants are $\frac{1}{2}$ to 1 inch tall.
Mustard		1.0	Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.
Nectarines	0.75	4.0	Full coverage spray. 10 days.
Oats (seed)		2.0 oz./bu.	Do not use as food or feed.
Olives	1.0	12.0	75 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Onions (including green onions)	0.75	lbs. actual/A. 0.5 (spray) 1.2 (dust) 4.0 1.5	10 days. Preplanting broadcast soil treatment. Apply to furrow at time of planting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIETHYL O-[2-ISOPROPYL-4-METHYL-PYRIMIDYL (6)] THIOPHOSPHATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Sugar beets	10 (tops) 0.75 (roots)	4.0 0.5 (spray)	Preplanting broadcast soil application. No time limitations. Tops may be fed to beef and dairy animals.
Sugarcane		4.0 (spray) 6.0 (granular)	Apply in a 12 inch band over seed pieces in open furrow at time of planting.
		2.5 (granular)	Broadcast application to young plants. Do not apply more than 4 times during growing season. Do not apply within 45 days of harvest or feeding bagasse to livestock. Do not feed leaves and field trimmings to livestock.
		0.5 (spray)	Foliage application. Do not apply within 10 days of harvest or feeding bagasse to livestock. Do not feed leaves or field trimmings to livestock.
Sweet corn	0.75	4.0	Preplanting broadcast soil application.
Sweet potatoes		3.0 4.0	Apply at time roots begin to enlarge. Preplanting broadcast soil application.
Swiss chard	0.75	0.5 (spray) 1.6 (dust) 4.0	12 days. Preplanting broadcast soil application.
Tomatoes	0.75	0.75 (spray) 0.8 (dust) 1.0 (granular) 1.0	1 day. No time limitations. Broadcast soil application 1 to 2 days prior to sowing seed in plant beds or transplanting in fields. Mix with top 1-2" of soil.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YIMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE lbs. actual/A.	LIMITATIONS
Pecans		10.0	Do not apply after husks split. Do not graze livestock in treated groves.
		5.6	Do not apply after husks split. Do not graze livestock in treated groves within 21 days after treatment.
Peppers		0.5	Do not apply within 5 days of harvest if not more than 4 applications are made. Do not apply within 14 days of harvest if more than 4 applications are made.
Plums	2.0	4.0	15 days. Do not apply more than 8 times per season.
Potatoes		0.75	7 days.
Prunes	2.0	4.0	15 days. Do not apply more than 8 times per season.
Quinces	2.0	6.0	15 days.
Raspberries	2.0	0.5 (spray) 0.9 (dust)	14 days. Foliar application.
		2.0	Apply only before fruit set or after crop is harvested. Apply to lower portion of canes and to soil beneath plants.
		1.0	3 days. Apply to lower portion of canes and to soil beneath plants. Do not apply more than twice per season.
Soybeans		0.75	Do not apply within 21 days of harvest. Do not graze or feed treated plants to livestock.
Spinach	2.0	0.5 (spray) 0.75 (dust)	14 days.
Strawberries	2.0	0.5	5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

O,O-DIMETHYL S-[4-OXO-1,2,3-BENZOTRIAZIN-3 (4H) YIMETHYL] PHOSPHORODITHIOATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugarcane	0.3	lbs. actual/A.	
		1.5	40 days. Do not apply more than 5 times per season. Treated cane must be burned off at harvest or washed before processing. Do not feed treated forage or harvest trash to livestock.
		0.75 (spray)	Use restricted to Louisiana. Apply by aircraft using a minimum of 2 gallons of water per acre. Do not apply within 30 days of harvest nor more than 5 times per season. Do not feed treated forage to livestock.
		0.75	Use restricted to Louisiana. Undiluted aerial application only. Do not apply more than 5 times per season. Do not apply within 30 days of harvest. Do not feed treated forage to livestock.
Tomatoes	2.0	0.75	No time limitations.
Walnuts		10.0	Do not apply after husks split. Do not graze livestock in treated groves within 21 days after treatment.
Wheat		0.6	Do not apply more than once per season. Do not apply within 30 days of harvest or grazing livestock.
Watermelons		0.5	14 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIMETHYL PHOSPHATE OF ALPHA-METHYL BENZYL 3-HYDROXY-CIS-CROTONATE*

PRINCIPAL FORMULATIONS: Emulsifiable concentrate containing 3.2 lbs./gal.;
3% dusting powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Beef Cattle Dairy Cattle		1.0% (in oil)	Apply by backrubbers.
		1.0% (in water)	Pour along backline at rate of one quart per animal. Do not apply more often than once every 7 days. Do not contaminate food, feed, or drinking water.
		0.3% (in water)	Thorough application to animals. Do not apply more often than once per week. Do not contaminate food or feed.
		3.0% (dusting powder)	Apply at the rate of 1-2 heaping table-spoonfuls per animal on poll, back, and upper portions of sides. Do not repeat application within 14 days.
		3.0% (dusting powder)	Apply in dust bags suspended in livestock holding pens, feed lots, loafing sheds, near mineral or salt licks and in alley ways leading to and from animal buildings or dairy barns. May be applied daily when application is made with dust bags.
		2.0% (in oil)	Apply at the rate of 2 oz. per animal per day. Do not contaminate feed, food, or drinking water.
		2.0% (in water)	Apply daily at the rate of 2 oz. per animal. Do not contaminate food, feed, or drinking water.
		1.0% (in water)	Apply at the rate of 1 quart per animal the size of an adult cow, proportionately less for smaller animals. Do not apply more often than every 7 days. Do not contaminate food, feed, or drinking water.
		0.5% (in water)	Apply at the rate of 1-2 quarts per animal the size of an adult cow, proportionately less for smaller animals. Do not apply.....(Continued)

*Proprietary Name: "Ciodrin"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIMETHYL PHOSPHATE OF ALPHA-METHYL BENZYL 3-HYDROXY-CIS-CROTONATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Beef Cattle Dairy Cattle (cont.)		0.5% (in water)	(Continued)..more often than every 7 days. Do not contaminate food, feed, or drinking water.
Goats Sheep Swine		0.3% (in water)	Thorough application to animals. Do not apply more often than once per week. Do not contaminate food or feed.
		1.0% (in water)	Apply at the rate of $\frac{1}{2}$ oz. per animal to the face, back, and sides of animal. Do not apply more than 3 times per week.
		1.0% (in oil)	Apply 1 oz. daily per adult goat, hog, or sheep. Reduce dosage $\frac{1}{2}$ for younger animals. For best results, apply in the morning for protection during the day. Do not overdose.
		1.0% (in water)	Apply at the rate of 1 pint per animal. Do not apply more often than 7 days. Do not contaminate food, feed, or drinking water.
		0.5% (in water)	Apply at the rate of 1 quart per animal. Do not apply more often than 7 days. Do not contaminate food, feed, or drinking water.
		0.25% (in oil)	Apply in combination with other insecticides as a mist spray over back and withers of swine at the rate of $\frac{1}{2}$ ounce per animal.
Agricultural Premises:			
Barns		0.3% (in water)	Apply liberally as a surface spray. Do not contaminate food or feed.
Dairy barns			
Fences			
Fly breeding areas		1.0% (in water)	Apply as a spray at the rate of 1 gal./1000 sq. ft. Do not contaminate food, feed, or drinking water.
Other farm buildings		2.0% (in oil or water)	Apply as a spray at the rate of $\frac{1}{2}$ gal./1000 sq. ft. Do not contaminate food, feed, or drinking water.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,3-p-DIOXANEDITHIOL-BIS-(O,O-DIETHYLPHOSPHORODITHIOATE)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peaches		4.0	Do not apply after fruit begins to form.
Pears	4.9	6.0	7 days. Do not apply more than 7 times after fruit starts to form. Do not feed pomace from treated fruit to meat or dairy animals.
Plums		4.0	Do not apply after fruit begins to form.
Prunes		4.0	Do not apply after fruit begins to form.
Quinces	4.9	6.0	7 days. Do not apply more than 7 times after fruit starts to form. Do not feed pomace from treated fruit to meat or dairy animals.
Tangeloes	2.8	12.5	Do not make reapplication within 3 months if fruit is present during first application.
Tangerines	2.8	12.5	Do not make reapplication within 3 months if fruit is present during first application.
Walnuts		4.0	Do not apply after husks split.
Animals:			
Beef cattle	1.0	0.15%	Dip or spray. Do not dip animals under 3 months of age. Do not reapply within 2 weeks. Do not apply to dairy animals.
Sheep	(in fat)	(in water)	
Goats		0.15%	Apply freely to wounds, cuts, and abrasions. Do not apply to dairy animals.
Swine		(smear or gas propelled spray)	
Beef cattle	1.0	0.6%	Apply by pouring one quart on back and shoulders of each animal. Do not reapply within 30 days. Do not apply to dairy animals.
	(in fat)	(in water)	
		1.5%	For use in backrubber.
		(in oil)	

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIPHENAMID*

PRINCIPAL FORMULATIONS: 50% and 80% wettable powder; 5% granules

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples		6.0	Apply to orchard floor after clean cultivation. Do not apply within 90 days of harvest. Do not graze livestock on treated areas.
Cotton		4.0	Preemergence application at time of planting. Do not graze treated areas or feed treated plant parts to livestock.
Okra		5.0	Preemergence application at time of planting.
Peaches		6.0	Apply to orchard floor after clean cultivation. Do not apply within 90 days of harvest. Do not graze livestock on treated areas.
Peanuts		6.0	Apply at time of planting, soil cracking, or 7 days later.
		3.0	Postemergence application at cracking time or 7 days later. Used in combination with 1.5 lbs. of DNBP amine.
Peppers		5.0	Preemergence application to direct seeded crop. or Broadcast application within one month after transplanting or seeding.
Potatoes		6.0	Apply at time of planting or immediately after.
Soybeans		5.0	Preemergence application at time of planting. Do not graze treated areas or feed treated plant parts to livestock.

*N,N-dimethyl-2,2-diphenylacetamide

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DIPHENAMID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Strawberries		lbs. actual/A. 6.0	Overall after row establishment or 2-6 weeks after transplanting. Do not harvest berries within 1 year after treatment.
Sweet potatoes		6.0	Use restricted to Louisiana. Apply to row middles between edges of mulch.
Tomatoes		6.0	Apply at time of planting or immediately after.
		6.0	Preemergence application to direct seeded crop. or Broadcast application within one month after transplanting or seeding.
All uses			Do not plant other food crops in treated soil within six months after last treatment. Do not use cover crop for food or feed within six months after last treatment. Small grain cover crops may be injured.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DODINE*

PRINCIPAL FORMULATIONS: 4.65% and 65% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	5	4.0	7 days. Do not use treated apples in the manufacture of apple pomace for use in livestock feeds.
		1.6	5 days. Do not use treated apples in the manufacture of apple pomace for use in livestock feeds.
Black walnuts		6.5	Do not graze meat or dairy animals in treated groves.
Cherries (sour & sweet)	5	2.5	No time limitation.
		3.25	Postharvest or up to petal fall.
Peaches	5	6.5	Western states only. Dormant and/or delayed dormant application only.
		1.62	Do not apply within 15 days of harvest.
Peanuts		0.65	Do not feed treated peanut vines to meat or dairy animals.
Pears	5	4.0	7 days.
		1.6	5 days.
Pecans		4.6	Do not apply after shucks have started to open. Do not graze meat or dairy animals in treated groves.
Strawberries	5	1.3	14 days.

*Dodecylguanidine acetate

USDA Summary of Registered Agricultural Pesticide Chemical Uses

DORMANT OILS*

PRINCIPAL FORMULATIONS: Usually marketed as emulsifiable concentrates containing a high percentage of oil

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Apples	Exempt	248.0	Apply during dormancy when temperature is above 40°F.
		100.0	Dormant or delayed dormant only.
Apricots	Exempt	140.0	Apply during dormancy when temperature is above 40°F.
		100.0	Dormant or delayed dormant only.
Blackberries	Exempt	30.0	Dormant application only.
Blueberries	Exempt	30.0	Dormant application only.
Boysenberries	Exempt	30.0	Dormant application only.
Cashews	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Cherries	Exempt	140.0	Apply during dormancy when temperature is above 40°F.
		100.0	Dormant or delayed dormant only.
Chestnuts	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Cranberries	Exempt	30.0	Dormant application only.
Currants	Exempt	30.0	Dormant application only.
Dewberries	Exempt	30.0	Dormant application only.
Figs	Exempt	70.0	Apply during dormancy when temperature is above 40°F.
Filberts	Exempt	96.0	Apply during dormancy when temperature is above 40°F.
Gooseberries	Exempt	30.0	Dormant application only.

*Phytotoxic to foliage; see also "Summer Oils," "Mineral Oil," and "Petroleum Solvents."

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Barley		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Beans	2	1.0	Do not apply more than 3 times per season. Do not apply within 3 days of harvest. Do not feed treated threshings to livestock or allow to graze in treated fields.
Beans (dry)	2	1.0	Do not apply within 40 days of harvest.
Blueberries		1.5	Do not apply after buds are well formed.
Broccoli	2	1.0	7 days.
Brussels sprouts	2	1.0	Do not apply within 14 days of harvest.
Cabbage	2	1.0	7 days.
Carrots	0.2	1.0	Do not apply more than 2 times per season. Do not apply within 7 days of harvest. Do not use tops for food or feed.
Cauliflower	2	1.0	Do not apply within 14 days of harvest.
Celery (whole plant)	2	0.5	Do not apply within 7 days of harvest.
		1.0	Do not apply more than 3 times per season. Do not apply within 4 days of harvest.
Cherries	2	2.5	Do not apply more than twice after shucks split. Do not apply within 21 days of harvest.
		3.0	Postharvest application only.
		0.75 lbs./ 100 gals. water	Spray all bark from ground to scaffold branches. Do not apply more than twice after shucks split. Do not apply within 21 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Citrus: Nursery & Non-bearing stock		lbs. actual/A. 2.5 or 0.25 lbs. actual/100 gals. water	Do not apply to bearing trees or to trees that will bear fruit within 12 months.
Clover		3.0	Do not feed treated forage to dairy animals or animals being fattened for slaughter. Do not use on forage to be sold commercially or shipped interstate.
Collards	2	0.75	One application per season. Do not apply within 21 days of harvest.
Corn (sweet)	0.2 (kernels plus cob with husks removed)	1.5	For fresh vegetable use only. Do not apply to sweet corn to be processed. Do not make more than 5 applications. (May be applied up to day of harvest.) Do not feed forage or ensilage to livestock or allow to graze in treated fields.
Cotton		1.5	Do not apply after bolls open. Do not graze meat or dairy animals in treated fields.
		0.75	Do not apply after 25% of bolls are open. Do not graze meat or dairy animals in treated fields.
Cucumbers	2	1.0	No time limitations.
Eggplants	2	0.5 (spray)	1 day.
		0.6 (dust)	1 day.
Filberts		2.0	No time limitations.
Grapes	2	1.5	7 days.
Kale	2	0.75	One application per season. Do not apply within 21 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Lettuce (head)	2	lbs. actual/A. 1.0	Do not apply more than 3 times after thinning. Do not apply within 14 days of harvest. Remove outside leaves at harvest. Do not feed crop waste to live-stock.
Macadamia nuts		15.0	No time limitations.
Melons	2	1.0 (spray) 1.5 (dust)	No time limitations.
Mustard greens	2	0.75	One application per season. Do not apply within 21 days of harvest.
Nectarines	2	4.0	Foliar application. 30 days. Do not apply more than twice during fruiting season.
		0.75/ 100 gals. water	Spray all bark from ground to scaffold branches. Do not apply within 21 days of harvest. or Thoroughly wet trunk and main branches. Do not apply more than twice during fruiting season. Do not apply within 30 days of harvest.
Oats		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Peaches	2	4.0	Foliar application. 30 days. Do not apply more than twice during fruiting season.
		0.75/ 100 gals. water	Spray all bark from ground to scaffold branches. Do not apply within 21 days of harvest. or Thoroughly wet trunk and main branches. Do not apply more than twice during fruiting season. Do not apply within 30 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Pears	2	2.5	7 days. Do not apply more than twice during fruiting season.
		2.0	Apply to orchard floor and ground around trees. Do not graze livestock on treated orchards. Do not apply after petal fall.
		3.0	30 days. Apply thoroughly to foliage and fruit. Do not apply more than once during fruiting season.
Peas (succulent)	2	1.0	Use restricted to Northwestern states. Do not apply more than 2 times per season. Do not apply within 5 days of harvest. Use only on peas when crop is to be harvested by combine. Do not feed treated vines to livestock or allow livestock to graze in treated fields.
Peas (grown for seed purposes only)		0.75	Do not feed treated vines or threshings to dairy or meat animals.
Pecans		10.0	Do not apply after shuck-split. Do not graze meat or dairy animals in treated groves.
Peppers	2	0.5 (spray)	1 day.
		1.0 (spray)	Do not apply within 4 days of harvest.
		1.5 (dust)	Do not apply within 1 day of harvest.
Pineapple	2	2.0	For fresh market only. Do not apply more than 4 times per season. Do not apply within 7 days of harvest. Do not feed treated forage or pineapple by-products to livestock.
Plums	2	2.5	7 days.
		0.75/ 100 gals. water	Spray on bark from scaffold branches to ground. Do not apply within 21 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes		lbs. actual/A. 2.5	No time limitations.
Prunes	2	2.5	7 days.
		0.75/ 100 gals. water	Spray on bark from scaffold branches to ground. Do not apply within 21 days of harvest.
Pumpkins	2	1.0	No time limitations.
Rye		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Safflower		1.0	Do not apply after flower heads open.
Southern Peas (succulent types)	2.0	1	3 days. Do not feed treated threshings to livestock or allow to graze in treated fields.
Soybeans		0.5 (spray) 0.6 (dust)	Do not apply after pods start to form. Do not feed treated threshings to livestock.
Spinach	2	0.75	One application per season. Do not apply within 21 days of harvest.
Squash (summer & winter)	2	1.0	No time limitations.
Strawberries	2	4.0	4 days. Do not reapply within 35 days when fruit is present.
		1.0	4 days. Do not reapply within 15 days or more than twice within a 35 day period when fruit is present.
		0.25 lbs. act./ 50 gals. water	Dip transplants prior to transplanting.
		1.0 lb. actual/ 100 gal. water	Use restricted to Northwestern states. Dip entire plant prior to transplanting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDOSULFAN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Sugar beets		1.0	Do not feed treated tops to livestock.
Sugarcane	0.5	0.45	Do not apply within 21 days of harvest. Do not feed bagasse or field trimmings to livestock.
Sunflower	2 (seed)	1.0	Do not apply more than 3 times per season. Do not feed treated forage to livestock.
Sweet Potato	0.2	2.0	Use restricted to south central states. Soil treatment at planting time. Do not feed treated potatoes to livestock.
Tomatoes (field & greenhouse)	2	1.0	1 day.
Tomatoes (greenhouse)	2	0.1/ 50,000 cu. ft.	Do not apply within 15 hours of harvest. Keep greenhouse tightly closed for 2 hours after application.
Turnip Greens	2	0.75	One application per season. Do not apply within 21 days of harvest.
Walnuts		2.0	Do not apply after husks split.
Watercress	2	1.0	7 days.
Wheat		0.5	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN*

PRINCIPAL FORMULATIONS: 1.5% dust; emulsifiable concentrate containing 1.6 lbs. per gallon; 0.75% and 2.0% baits

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A	
Alfalfa		0.25	Single application. Do not apply within 35 days of harvest or grazing. Do not apply after crop is 4 inches tall.
Almonds		2.0	70 days. Do not graze dairy animals or animals being finished for slaughter on treated forage.
Artichokes		0.75	30 days. Single application.
Asparagus			
Green		0.75%	Dry bait formulations. Apply to soil around plants. Do not apply around leafy vegetables. Do not contaminate plants.
White		(40 lbs./acre)	
Barley		0.25	45 days. Single application.
Birdsfoot Trefoil		0.125	Single application. Do not apply within 35 days of harvest or grazing. Do not apply after crop is more than 2 inches tall.
Clover		0.125	Single application. Do not apply within 35 days of harvest or grazing. Do not apply after crop is more than 2 inches tall.
Corn			
Field		0.5	Apply when southwestern corn borer egg masses are present on 25% of the stalks. Repeat application one week later. Do not feed forage or ensilage from treated fields to meat or dairy animals.

*1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro
1,4-endo-endo-5,8-dimethanonaphthalene

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn		lbs. actual/A.	
Field Sweet		0.25	Single application. Do not apply within 45 days of harvest or cutting for ensilage.
Cotton	0	0.7	Apply for control of cutworms. Do not graze dairy animals or animals being finished for slaughter on treated fields. Workers entering fields within 5 days after treatment should be protected.
		0.5	Do not graze dairy animals or animals being finished for slaughter on treated fields. Workers entering fields within 5 days after treatments should be protected.
Cotton (seed)		2.0 oz./100 lbs.	Do not use as food or feed.
Deciduous Fruits:			
Apples		2.4	Post-harvest application to orchard floor in Oct. or Nov. Apply at 500 psi pressure. Do not cultivate prior to application or within 2 months thereafter. Do not treat areas where runoff will contaminate streams, ponds, or domestic water supplies. Do not graze orchards, cut forage for hay, or allow drop fruit to be utilized for any purpose. Post or otherwise prevent entry to treated area within 30 days after treatment.
Apricots			
Cherries			
Nectarines			
Peaches			
Pears			
Plums			
Prunes			
Quinces			
Eggplants	0	0.25	14 days.
Grapes		0.5	Dust formulations: 30 days. Spray formulations: Single application. Do not apply after buckshot stage or within 46 days of harvest.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Lettuce		0.5	40 days. Do not apply after 5-6 leaf stage.
Oats		0.25	45 days. Single application.
Peppers	0	0.5	14 days.
Potatoes	0	0.8	3 days.
Rye		0.25	45 days. Single application.
Sorghum:			
Forage Grain		0.25	Single application. Do not apply within 35 days of harvest or cutting for ensilage.
Strawberries		3.0	Postharvest application or during non-bearing years.
Sugar beets	0	0.4	60 days if tops are to be fed to animals; 20 days if tops are to be plowed under at harvest or are to be composted.
Sugarcane		0.25	45 days. 4-8 applications at 14-day intervals. 2.0% granular formulation only. Do not feed bagasse or field trimmings to livestock.
		0.5	45 days. 4 applications at 21 day intervals. Do not feed bagasse to livestock.
		0.5	Apply to seed pieces in open row.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ENDRIN

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes	0	lbs. actual/A. 0.6	14 days.
		0.8	Bait formulations. 14 days.
Vegetables:			
Asparagus		0.8	Bait formulation for control of cutworms.
Beans			Do not apply around leafy vegetables or
Beets			green asparagus. Apply with equipment
Blackeyed peas			capable of delivering bait to soil surface
Carrots			to avoid contamination of plant parts.
Corn			Follow preharvest limitation required for
Cowpeas			comparable dosage on each crop.
Garlic			
Horseradish			
Leeks			
Okra			
Onions			
Parsnips			
Peas			
Peppers			
Pimentos			
Potatoes			
Radishes			
Rutabagas			
Salsify			
Shallots			
Sweet potatoes			
Tomatoes			
Wheat		0.25	45 days. Single application.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Limes	2.0	7.5	Do not apply more than once per season. Do not apply within 21 days of harvest.
Melons	2.0	1.0 (spray) 1.6 (dust)	No time limitations.
Nectarines	1.0	1.5	Apply during dormancy or late dormancy. Do not apply after foliage or edible parts start to form.
		1.75 (spray) 2.4 (dust)	Do not apply within 30 days of harvest and do not apply more than twice during the fruiting period.
Onions Green Bulb	1.0	2.0	Apply to furrow at time of planting.
Oranges	2.0	7.5	No time limitations. Do not repeat appli- cation within 90 days.
		10.0	30 days.
Peaches	1.0	1.75 (spray) 2.4 (dust)	30 days. Do not apply more than twice during fruiting season.
Peanuts		1.0	Do not feed forage from treated fields to dairy animals or animals being finished for slaughter. Do not allow livestock to graze treated areas before or after har- vest.
Pears	1.0	5.0	60 days. Do not apply more than 3 times after first cover spray.
		2.7	35 days. Do not apply more than twice during fruiting period.
		2.5	30 days. Do not apply more than 3 times after first cover spray.
Pecans		3.0 + 130 lbs. of oil in water	Dormant or delayed dormant application only.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Peppers	1.0	0.5	No time limitations.
		1.0	21 days. Do not apply more than three times during fruiting period.
Pimentoes	1.0	0.5	No time limitations.
Plums	2.0	2.5	45 days. Do not apply more than twice during fruiting period.
		1.75	21 days. Do not apply more than 3 times during fruiting period.
Prunes	2.0	2.5	45 days. Do not apply more than twice during fruiting period.
		1.75	21 days. Do not apply more than 3 times during fruiting period.
Sorghum	2.0 (grain & forage)	0.5	Do not apply later than 10 days after first bloom except on sorghum grown only for seed. Some leaf burning may occur on phosphate sensitive varieties. Do not apply more than twice per growing season. Do not graze treated areas or use treated crops for silage.
		0.5	Do not apply more than 3 times per season. Do not harvest or feed forage within 30 days after last application.
Strawberries	2.0	1.0 (spray) 1.2 (dust)	2 days.
Summer squash	0.5	0.5	No time limitations.
Tangeloes	2.0	7.5	No time limitations. Do not repeat application within 90 days.
Tangerines	2.0	7.5	No time limitations. Do not repeat application within 90 days. Do not apply more than twice per season.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes	2.0	lbs. actual/A. 0.5 (spray) 0.8 (dust)	2 days.
		1.2	28 days. Do not apply more than once after fruit begins to form.
Walnuts		3.2	Dormant or delayed dormant application only.
		2.5	Do not apply after husk-split. Do not apply more than twice during fruiting season.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

S-ETHYL CYCLOHEXYLETHYLTHIOCARBAMATE

PRINCIPAL FORMULATIONS: 72.7% emulsifiable concentrate and 10% granular

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Spinach	0.05	lbs. actual/A. 4	Preplant soil incorporation.
Sugar beets	0.05 (roots & tops)	4	Preplant soil incorporation.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

S-ETHYL HEXAHYDRO-1H-AZEPINE-1-CARBOTHIOATE

PRINCIPAL FORMULATIONS: 5% and 10% granular; 71% emulsifiable concentrate containing 6 lbs./gal.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Rice		lbs. actual/A. 3.0	Preplant: soil incorporation. Do not contaminate domestic waters. or Postemergence and postflooded. Apply while barnyardgrass is submerged and less than 3 inches tall. Air application only. Do not contaminate domestic waters.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

N-ETHYLMERCURI-1,2,3,6-TETRAHYDRO-3,6-endo-
METHANO-3,4,5,6,7,7-HEXACHLOROPHTHALIMIDE*

PRINCIPAL FORMULATIONS: 10.34% emulsifiable concentrate;
10.00% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Flax		1.5 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.
Grains:			
Barley		1.5 oz./bu.	Seed treatment only. Do not use treated seed for food or feed.
Oats			
Rye			
Wheat			

*Proprietary name: "Enmi"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHYLENE DICHLORIDE MIXTURE

PRINCIPAL FORMULATIONS: Mixture containing 68.5% ethylene dichloride, 29% carbon tetrachloride, 2.5% sulfur dioxide

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Corn		1 gallon/ 1800 cu.ft.	Used for conditioning grain in cars on route to market.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ETHYLENE GLYCOL BIS (TRICHLOROACETATE)

PRINCIPAL FORMULATIONS: 43% emulsifiable concentrate; 43.9% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cotton		20 lbs./100 gals. of oil	Spot treatment as a directed spray to base of weeds when 12 inches tall. Do not apply to crop. Do not graze treated fields or feed gin waste to livestock.
Soybeans		20 lbs./100 gals. of oil	Spot treatment as directed spray to base of weeds 12 inches tall before crop seed pods have formed. Do not graze treated fields or feed forage to livestock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

FERBAM*

PRINCIPAL FORMULATIONS: 76%, 80% and 98% wettable powder;
3.9%, 7.6%, 11.5% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	0.1	12.2	Petal fall.
Apples	7	18.0	7 days.
Apricots	7	7.6	21 days.
Beans	7	3.0	Do not apply within 4 days of picking. Do not feed treated plant parts to meat or dairy animals.
Blackberries	7	5.7	40 days.
Blueberries	7	5.7	40 days.
Boysenberries	7	5.7	40 days.
Broccoli	7	1.7	Plant bed treatment only.
Cabbage	7	2.3	Plant bed treatment only.
Cantaloupe	7	0.8	No time limitations.
Carrots	7	3.0	7 days if tops are to be used for food or feed.
Celery	7	3.0	No time limitations. Remove residues by stripping, trimming, and washing.
Cherries	7	15.0	No time limitations.
Citrus	7	30.4	Prebloom and 2/3 petal fall and late summer or early fall if heavy flush of growth occurs.
Grapefruit			
Kumquats			
Lemons			
Limes			
Oranges			
Tangeloes			
Tangerines			

*Ferric dimethyl dithiocarbamate

USDA Summary of Registered Agricultural Pesticide Chemical Uses

FERBAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cranberries	7	11.4	Do not apply within 28 days after mid-bloom.
Cucumbers	7	0.8	No time limitations.
Cucurbits	7	0.8	No time limitations.
Currants	7	3.8	14 days.
Dates	7	1.9	7 days.
Dewberries	7	5.7	40 days.
Gooseberries	7	3.0	14 days.
Grapes	7	4.6	7 days.
Lettuce	7	18.4	Plant bed treatment.
		3.0	Florida only. Do not apply within 7 days of harvest. Remove residues by stripping and trimming.
Loganberries	7	3.0	Do not apply after fruit begins to form.
Nectarines	7	5.7	Immediately after bloom.
Peaches	7	7.6	21 days.
Pears	7	5.7	7 days.
Peppers	7	1.3	Plant bed treatment.
Plums	7	7.4	7 days.
Potatoes		3.0	No time limitations.
Prunes	7	7.4	7 days.
Quinces	7	5.7	7 days.
Raspberries	7	5.7	40 days.
Squash	7	0.8	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ISOPROPYL N-(3-CHLOROPHENYL) CARBAMATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Upland Cress		lbs. Actual/A. 2.0	Preemergence application immediately after planting.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ISOPROPYL 4,4'-DICHLOOROBENZILATE

PRINCIPAL FORMULATIONS: 25% emulsifiable concentrate; 40% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples	5	0.5 lbs. actual per 100 gals. water	Do not apply within 14 days of harvest. Do not graze treated areas.
Pears	5	0.5 lbs. actual per 100 gals. water	Do not apply within 14 days of harvest. Do not graze treated areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ISOPROPYL N-PHENYL CARBAMATE*

PRINCIPAL FORMULATIONS: 11.6%-53% emulsifiable concentrates; 50% and 75% wettable powders; 2%-15% dusts; 5%, 8%, 10% and 15% granular formulations

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Alfalfa		lbs. Actual/A.	
		4.0	Preplanting application just before planting. Do not disc into soil.
		5.0	Preemergence use only on seedling weeds.
		8.0	Preplanting application. Disc into soil prior to germination of weeds and grasses. or Post-emergence. Apply when crop has at least 3 true leaves.
		12.0	Apply in late fall to early spring. Do not graze livestock on treated fields or feed treated forage to livestock.
Beans		4.4	Post-emergence. Apply when beans are well rooted.
		5.0	Preemergence application.
		11.0	Preplanting application in late winter or early spring (4-6 weeks before planting).
Beets		3.0	Preemergence application.
		4.0	Post-emergence application when 4 or more beet leaves appear.
		11.0	Preplanting application in late winter or early spring (4-6 weeks before planting).
Blackberries		8.0	Preplanting application. Till into soil prior to germination of seed and grasses.
		11.0	Apply during winter dormant period only. Direct spray to grasses.

*IPC

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINSEED OIL

PRINCIPAL FORMULATIONS: With various toxicants as animal remedies

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: Beef Cattle Dairy Cattle Goats Sheep Swine		10.0%	Formulated with other ingredients and applied locally as a screw-worm or ear tick remedy.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

LINURON*

PRINCIPAL FORMULATIONS: 50% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Carrots	1	2.0	Preemergence application or postemergence application when carrots are 2-6 inches tall. Do not replant to other crops within 4 months after treatment.
Corn (field)	1.0 (fodder or forage)	2.5	Preemergence soil application. Plant seed 1.75 inches deep.
		2.0	Postemergence directed spray when crop is 15 inches tall to layby. Do not apply within 60 days of harvest. Do not plant to other crops within 4 months after treatment.
Corn (sweet)	1.0 (fodder or forage)	2.5	Preemergence application. Plant seeds 1.75 inches deep.
		2.0	Postemergence application as a directed spray when corn is 15 inches tall or taller. Do not apply within 60 days of harvest. Do not plant to any crop within 4 months after treatment.
Cotton		1.5	Postemergence directed spray when cotton is 20 or more inches tall or two half dosages after cotton is 15 inches tall. Do not plant any crop within 4 months after treatment. Do not apply within 60 days before harvest. Do not graze treated fields or feed forage from treated areas. Do not apply to Pima varieties.
Parsnips		1.5	Preemergence application. Do not apply to light soils. Do not replant treated area in other crops within 4 months after treatment. Do not use tops from treated area for food or for feed for dairy or meat animals.

*3-(3,4-dichlorophenyl)-1-methoxy-1-methyl urea

USDA Summary of Registered Agricultural Pesticide Chemical Uses

MANEB*

PRINCIPAL FORMULATIONS: 37% liquid; 70% and 80% wettable powder;
3.5%, 5.6%, 6.0%, 7.0%, and 8.0% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	0.1	12.8	Use restricted to California. Do not apply later than 5 weeks after petal fall. If applied beyond petal fall, do not feed almond hulls to dairy animals or animals being finished for slaughter.
Apples	7	8.4	No time limitations.
Apricots	10	10.0	14 days.
Asparagus		2.4	Postharvest application only or apply to young plantings which will not be harvested.
Bananas	15 (on peel) 2 (in pulp)	4.0 0.46% (in water) 0.375% (in water)	No time limitations. Postharvest dip. No time limitations. Postharvest spray. No time limitations.
Beans, dry	7	3.2	No time limitations.
Beans, succulent	10	3.2	4 days.
Blackberries		3.2	Do not apply after bloom.
Broccoli	10	3.2 (spray) 4.0 (dust)	Remove residues by washing or trimming if application is made within 3 days of harvest.
Brussels sprouts	10	2.8	No time limitations.
Cabbage	10	2.4 (spray) 2.6 (dust)	7 days.
Carrots	7	3.0	No time limitations.
Cauliflower	10	2.8	No time limitations.

*Manganous ethylene bisdithiocarbamate
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MANEB

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Celery	10	lbs. actual/A. 3.2 (spray) 2.8 (dust)	No time limitations. Remove excess residues by stripping, trimming and washing.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHOXYCHLOR

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: (Cont.)		lbs. actual/A.	
Beef cattle	3 (in fat)	50.0% dust	Thorough application to animal. Work dust into hair.
		10% dust	Applied in dust bag. Do not use on dairy animals.
		2% dust (with other ingredients)	Apply in dust bags suspended in loafing areas and in water and feeding paths at the rate of one 12½ lb. bag per 10-15 animals. Do not refill bags more often than every 4 weeks. Do not apply to animals being finished for slaughter. Do not contaminate feed or water.
		1.5% in water	Spot treatment for control of tail lice. Thoroughly treat infested area.
Dairy cattle (Lactating)	0 (in milk)	5 grams in powdered form	Apply on the back and neck of each animal. Rub powder into hair with the hand. Repeat every 3 weeks if necessary.
Dairy cattle (Non-Lactating)	0 (in milk)	1.0% in water	Dip or spray. Thoroughly wet animals. Two quarts per head for large animals and proportionally less for smaller ones. Do not apply during lactation or within 2 weeks of freshening. Do not dip calves under one month of age.
		15.0% dust	Thorough application to animals. Work dust into hair. Do not apply during lactation or within 2 weeks of freshening.
Poultry		1.0% in water	Dip or spray. Thoroughly drench birds. No time limitation.
		15.0% dust	Thorough application to birds. No time limitation.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHOXYCHLOR

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Animals: (Cont.)			
Goats	3(in fat)	1.0% in water	Dip or spray. Thoroughly wet animals. Do not apply to lactating goats.
Sheep	3(in fat)	0.5% in oil	Mist spray application at 2.0 oz. per animal. Do not wet the hide. Do not apply to lactating goats.
		50% dust	Thorough application to animal. Work dust into wool. Do not apply to lactating goats.
Swine	3 (in fat)	5.0% in oil	Apply by rubbing devices.
		1.0% in water	Dip or spray. Thoroughly wet animals.
		0.5% in oil	Liberal application to animals.
		15.0% dust	Liberal application to animal and pens.
Agricultural Premises:			
Barns		0.8 lbs./ 1,000 sq. ft.	Residual surface spray on interior and exterior surfaces. Do not contaminate milk, feed, or drinking water. Exclude dairy animals while treating barns.
Dairy barns			
Poultry houses			
Milk rooms			
Animal pens			
Farm buildings		2.0 oz./ 1,000 cu. ft.	Formulated with other ingredients as a space and contact spray. Exclude dairy cattle from building before application. Do not contaminate milk, feed, or drink- ing water.
Etc.			
Poultry houses		1 lb. per 1000 sq. ft.	Dust application to litter and floorspace and to nests, roosts and adjacent areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHOXYCHLOR

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises: (Cont.) Grain bins	2 (on grain)	lbs. actual/A. 0.8 lbs./ 1,000 sq. ft.	Empty grain bin treatment only.
Greenhouses		0.8 oz./ 50,000 cu. ft.	Greenhouses aerosol formulation.
Mushroom Houses	14 (on mush- rooms)	150 mg./sq. ft. in water	Apply spray to beds, walls, posts, etc. when mushrooms are not present.
General Outdoor Fogging		0.2	Formulated with other ingredients and applied by fogging machines.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHYL PARATHION*

PRINCIPAL FORMULATIONS: 44.4% emulsifiable concentrate; emulsifiable concentrates containing two pounds and three pounds per gallon; 1% and 2.5% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		1.0	15 days.
		1.25	20 days.
Apples	1	6.0	14 days.
Apricots	1	2.5	14 days.
Artichokes	1	1.0	7 days.
Barley	1	0.75	15 days.
		0.25	No time limitations.
		1.25	Do not apply after heads begin to form.
Beans (dry)	1	1.5	15 days.
Beans (green)	1	1.5	21 days.
Beets	1	1.0	15 days. (21 days if tops are to be used as food).
Broccoli	1	1.5	21 days.
Brussels sprouts	1	1.5	21 days.
Cabbage	1	1.5	21 days.
Carrots	1	1.0	15 days.
Cauliflower	1	1.5	21 days.
Celery	1	1.0	15 days.
Clover	1	1.0	15 days.
		1.25	20 days.
Collards	1	1.5	21 days.

*O,O-dimethyl O-p-nitrophenyl phosphorothioate

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHYL PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn	1	0.25	12 days.
Cotton		3.0	Do not apply within five days of hand picking. (workers entering fields within 24 hours after application should wear protective clothing).
Grapes	1	0.75	14 days.
Grass (hay or pasture)	1	0.8	15 days.
Hops		1.0	15 days.
Kale	1	1.5	21 days.
Kohlrabi	1	1.5	21 days.
Lettuce	1	1.0	21 days.
Mustard	1	1.5	21 days.
Oats	1	0.75	15 days.
		0.25	No time limitations.
		1.25	Do not apply after heads begin to form.
Pasture (irrigated)	1 (grass forage)	0.1	7 days. Mosquito larvicide.
Peaches	1	4.0	14 days.
Pears	1	3.0	14 days.
Peas	1	1.0	15 days.
		0.25	10 days.
Peppers	1	1.0	15 days.
Plums	1	4.0	14 days.
Potatoes		1.5	5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

METHYL PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Rice		0.75	15 days.
Rutabagas	1	1.5	21 days.
Rye		0.75	15 days.
		0.25	No time limitations.
		1.25	Do not apply after heads begin to form.
Safflower		0.5	Do not apply after flowering.
Sorghum		1.0	21 days. Leaf injury may occur on some varieties.
Soybeans		1.0	20 days.
Spinach	1	1.0	21 days.
Strawberries	1	0.75	14 days.
Sugar beets		0.375	20 days. 60 days if tops are to be fed to livestock.
Sweet potatoes		0.75	5 days.
Tomatoes	1	1.5	15 days.
Turnips	1	0.8	15 days. 21 days if tops are to be used as food or feed. Foliage treatment.
Vetch		1.0	15 days.
		1.25	20 days.
Wheat	1	0.75	15 days.
		0.25	No time limitations.
		1.25	Do not apply after heads begin to form.
General:			
Mosquito	1.0	0.1	7 days.
larvicide	(grass		
(on irrigated	forage)		
pastures)			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

6 METHYL-2,3-QUINOXALINEDITHIOL CYCLIC CARBONATE

PRINCIPAL FORMULATIONS: 25% wettable powder; 1% and 2% dust

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples		lbs. actual/A.	
		4.5 (spray)	Do not apply between first bloom and harvest. Do not graze treated areas.
		0.63 (spray or dust)	Processing fruit only. Do not apply within 35 days of harvest, or more than 3 times between first bloom and harvest. Do not graze treated areas.
		1.5 (spray)	Do not apply within 35 days of harvest or more than 5 times between first bloom and harvest. Do not graze treated areas.
		0.75 (spray)	Do not apply within 35 days of harvest or more than 10 times between first bloom and harvest. Do not graze treated areas.
		0.6 (dust)	Do not apply within 35 days of harvest or more than 5 times between first bloom and harvest. Do not graze treated areas.
Apricots		3.0	Do not apply between first bloom and harvest. Do not graze treated areas.
Cantaloupe		0.4	Do not apply within 21 days of harvest or more than 7 times per season.
Cherries		3.0	Do not apply between first bloom and harvest. Do not graze treated areas.
Citrus Grapefruit Oranges Lemons Tangerines		7.5	Florida and Texas only. Do not apply within 35 days of harvest or more than twice during a crop year. Do not graze treated areas.
Cucumbers		0.4	Do not apply within 7 days of harvest or more than 5 times per season.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

6 METHYL-2,3-QUINOXALINEDITHIOL CYCLIC CARBONATE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Honeydew melons		0.4	Do not apply within 21 days of harvest or more than 7 times per season.
Nectarines		3.0	Do not apply between first bloom and harvest. Do not graze treated areas.
Peaches		3.0	Do not apply between first bloom and harvest. Do not graze treated areas.
Pears		4.5	Do not apply between first bloom and harvest. Do not graze treated areas.
Plums		3.0	Do not apply between first bloom and harvest. Do not graze treated areas.
Prunes		3.0	Do not apply between first bloom and harvest. Do not graze treated areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

NABAM VII

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
	ppm as Zineb	lbs. 93% w.p./ acre plus mix	
Potato		2 + a or b	No time limitation. Foliage application only.
Potato seed treatment		0.25 lb./30 gal. water plus 3 oz. 36% zinc sulfate	Do not use treated seed pieces for food or feed.
Spinach	25	2 + a or b	7 days.
Squash (summer)	7	2 + a or b	7 days.
Strawberry	7	2 + a or b	Apply before fruit forms and after harvest.
Swiss chard	25	2 + a or b	7 days.
Tomato	7	2 + a or b	No time limitations.
Turnip	7	2 + a or b	7 days.
Watermelon	7	2 + a or b	No time limitations.
Wheat	1	2 + a or b	Milk stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

NALED*

PRINCIPAL FORMULATIONS: 4% dust; emulsifiable concentrate containing 8 lbs. of active ingredient per gallon

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		2.0	4 days.
Apricots		8.0	4 days.
Beans (dry, lima, green)		2.0	4 days.
Broccoli	1	2.0	1 day.
Brussels Sprouts	1	2.0	1 day.
Cabbage	1	2.0	1 day.
Cauliflower	1	2.0	1 day.
Celery		2.0	4 days.
Chard	3	1.5	1 day.
Clover		2.0	4 days.
Collards		2.0	4 days.
Cotton		1.4	Do not apply within 4 days of handpicking.
Cucumbers	0.5	1.5 (spray) 2.0 (dust)	No time limitations. 4 days.
Cucumbers (greenhouse)		1.0 oz./ 10,000 cu. ft.	1 day.
Eggplants	0.5	1.0	1 day.
Endive		2.0	4 days.
Filberts		10.0	10 days.
Grain sorghum		1.0	4 days.

1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate

* Proprietary name: "Dibrom"

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Replaces page issued 10-1-66

USDA Summary of Registered Agricultural Pesticide Chemical Uses

NALED

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Grapefruit	3	lbs. actual/A. 1.0 lb. actual/ 100 gals. water	7 days, except in California and Arizona only 1 day.
Grapes		1.0 (spray) 2.0 (dust)	4 days.
Hops		1.0	4 days.
Kale		2.0	4 days.
Lemons	3	1.0 lb. actual/ 100 gal. water	7 days, except in California and Arizona only 1 day.
		4.0 oz./ 100,000 cu. ft.	Postharvest fumigation. Do not apply within 7 days of shipment.
Lettuce	1	1.5	1 day.
Melons	0.5	2.0	1 day.
Mustard greens		2.0	4 days.
Nectarines		8.0	4 days.
Onions (bulbs only)		0.5 (spray) 1.0 (dust)	4 days.
Oranges	3	1.0 lb. actual/ 100 gals. water	7 days, except in California and Arizona only 1 day.
Pastures & Rangeland		0.25	No limitations.
		1.0	Do not cut for hay to be sold commercially or shipped interstate within 4 days after application.
Peaches		8.0	4 days.
Peas		2.0	4 days.
Peppers	0.5	1.0	1 day.
Plums		8.0	4 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

NALED

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Potatoes		1.0	No time limitations.
Prunes		8.0	4 days.
Pumpkins	0.5	2.0	1 day.
Rice	0.5	0.75	2 days. Do not make more than 3 applica- tions.
Soybeans		2.0	4 days.
Spinach	3	1.5	1 day.
Squash (summer)	0.5	1.5 (spray) 2.0 (dust)	No time limitations. 4 days.
Squash (winter)	0.5	2.0	1 day.
Strawberries	1	1.0 (spray) 2.0 (dust)	1 day. 4 days.
Sugar beets		1.0	5 days.
Tangerines	3	1.0 lb. actual/ 100 gals. water	7 days, except in California and Arizona only 1 day.
Tomatoes	0.5	2.0	1 day.
Tomatoes (greenhouse)	0.5	1.0 oz./ 10,000 cu. ft.	1 day.
Turnip greens	3 (tops)	1.5	1 day.
Vetch		2.0	4 days.
Walnuts		10.0	10 days.
Animals:		0.3% in water	Apply as a light mist spray to entire bird except head. Apply at the rate of one gal- lon per 100 birds. Concentrate application under wings and around tail area. Do not apply to chickens under 6 weeks of age or to turkeys under 3 months of age. Repeat applications as necessary.
Poultry Chickens Pheasants Turkeys			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARACHLOROPHENOXYACETIC ACID*

PRINCIPAL FORMULATIONS: 2.08% liquid diethanolamine salt
 0.005% sodium salt (bomb)
 3.8% tablet

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tomatoes		ppm acid equivalent 50	Bloom set. Apply as a fine spray to flower clusters when they open. Do not apply more than 5 times per season. Do not apply more than once to individual clusters.

*4-CPA

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USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARATHION*

PRINCIPAL FORMULATIONS: 15% and 25% wettable powders; 1% and 2% dusts; 4% granular; 25% and 47% emulsifiable concentrates; 10% aerosol formulations

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	1	0.8	15 days.
Almonds		3.0	Full coverage spray. Do not apply after hulls open.
		6.0	Dormant spray only.
Apples	1	6.0	14 days. Full coverage spray. Do not apply to susceptible varieties.
Apricots	1	3.6	14 days. Do not apply until danger of bee poisoning has passed.
Artichokes	1	1.0	7 days.
Asparagus		0.6	Post-cutting season.
Avocados	1	2.5	21 days.
Barley	1	1.5	15 days.
Beans	1	0.8	15 days.
Beets	1	0.8	15 days. (21 days if tops are to be used for food or feed.)
Blackberries	1	0.8	15 days.
Blackeyed Peas	1	0.8	15 days.
Blueberries	1	0.6 (dust or spray)	14 days.
Boysenberries	1	1.0	15 days.
Broccoli	1	0.5	7 days.
Brussels Sprouts	1	0.5	7 days.
		1.0	14 days.

*O,O-diethyl O-p-nitrophenyl phosphorothioate

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cabbage	1	0.25	7 days.
		0.5	10 days.
Carrots	1	1.0	15 days.
Cauliflower	1	0.5	7 days.
Celery	1	0.25	15 days.
		0.5	21 days.
		1.0	30 days.
Cherries	1	2.1	14 days. Full coverage spray.
Citrus Fruits:			
Grapefruit	1	4.0	14 days.
Kumquats	1		
Lemons	1	10.0	30 days.
Limes	1		
Oranges	1		
Tangeloes	1		
Tangerines	1		
Clover	1	1.5	15 days.
Collards	1	0.25	7 days.
		0.5	10 days.
Corn	1 (grain & forage)	1.0	12 days (of harvest or cutting for forage).

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cotton		1.2	Do not apply within 5 days of hand picking.
Cowpea	1	0.45	Do not use within 15 days of harvest.
Cranberries	1	0.8	15 days.
		1.0	30 days.
Cucumbers	1	0.5	15 days. Do not apply before vining.
		0.1 lb./50,000 cu. ft. of greenhouse space	15 days.
Currants	1	0.8	30 days.
Dates	1	0.8	21 days.
Dewberries		1.0	15 days.
Eggplants	1	0.8	15 days.
Endive (Escarole)	1	0.5	21 days.
		0.1 lb./50,000 cu. ft. of greenhouse space	21 days. Apply as an aerosol formulation.
Figs	1	2.5	30 days. Full coverage spray for control of fig scale.
Filberts		3.0	Full coverage spray. Do not apply after hulls begin to open.
Garlic	1	0.6	15 days.
Gooseberries	1	1.0	15 days.
Grapes	1	2.5	Apply only before fruit is the size of buckshot or after harvest.
		1.5	14 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

PARATHION

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Grass hay	1	0.8	15 days.
Grass			
Pasture	1	0.8	15 days of pasturing or harvest.
Guavas	1	2.5	30 days.
Hops	1	0.8	15 days.
Kale	1	0.25	7 days.
		0.5	10 days.
Kohlrabi	1	0.8	7 days.
Lettuce (head)	1	0.5	7 days.
		0.1 lb./50,000 cu. ft. of greenhouse space	21 days.
Lettuce (bibb leaf)	1	0.25	14 days.
		0.5	21 days.
		0.1 lb./50,000 cu. ft. of greenhouse space	21 days.
Loganberries	1	1.0	15 days. Dust or spray for control of mites and aphids.
Mangoes	1	3.0	21 days.
Melons	1	0.5	7 days.
Mustard greens	1	0.25	7 days.
		0.5	10 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

polyethylene polymer containing 3 parts of [ethylenebis [dithiocarbamate]]
 zinc to 1 part of [[dithiobis (thiocarbonyl) iminoethylene]]
 bis [dithiocarbamate]] zinc

PRINCIPAL FORMULATIONS: 80% WP; 3.5, 5.0, 7.0 and 10% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	7	8.0 (sprays)	7 days. Do not graze treated areas.
Asparagus		2.4 (sprays)	Postharvest application to ferns only.
Cantaloupes	5	1.6 (sprays)	No time limitations.
Celery	5	1.6 (sprays)	No time limitation. Remove excess residues by stripping, trimming and washing.
Corn sweet		3.2 (sprays)	Florida only. Use on corn for fresh vegetable use only. Do not apply within 1 day of picking. Do not feed forage to livestock.
Cotton		1.0 (dusts) / 100 lbs. seed	Planter box seed treatment.
Cucumbers	5	1.6 (sprays)	No time limitations.
Peanuts		1.6 (sprays or dust)	Do not feed treated forage to dairy animals or animals being furnished for slaughter.
Pecans		16.0 (sprays)	Do not apply after shuck split.
Potatoes		1.6 (sprays)	No time limitations.
		0.11 (dust) / 100 lbs.	Seed piece treatment.
Sugar beets		2.4 (sprays)	Do not feed treated tops to meat or dairy animals.
Tomatoes	5	2.4 (sprays)	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

POTASSIUM AMMONIUM ETHYLENE BISDITHIOCARBAMATE

PRINCIPAL FORMULATIONS: 25% solution: formulation is used in tank mix preparations by reaction of zinc sulphate to form zineb and manganese sulphate to form maneb. Rate of tank mixture equals 3 qts. of 25% solution per 100 gals. of water plus 0.75 lbs. of 36% metallic zinc sulphate & 0.75 lbs. of metallic manganese sulphate. Apply at the rate of 150 gals. of mixture/A.

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Beans (succulent)	10 maneb 7 zineb	qts./100 gals. water 3.0	7 days.
Broccoli	10 maneb 7 zineb	3.0	7 days.
Brussels sprouts	10 maneb 7 zineb	3.0	7 days.
Cabbage	10 maneb 7 zineb	3.0	7 days.
Cantaloupes	7 maneb 7 zineb	3.0	No time limitations.
Cauliflower	10 maneb 7 zineb	3.0	7 days.
Celery	10 maneb 7 zineb	3.0	No time limitations. Remove residues by washing, stripping, and trimming.
Corn (sweet)	7 maneb (kernel & cob) 7 zineb	3.0	No time limitations. Do not feed treated forage to livestock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SILICA AEROGEL

PRINCIPAL FORMULATIONS: 100%; also used with various toxicants as animal remedies

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Agricultural Premises: Barns Feed Rooms Grain Bins Etc. (exclude dairy barns) Animals: Beef Cattle Dairy Cattle Goats Sheep Swine		1.25 lbs./ 1000 sq. ft. 10.0%	Formulated with other ingredients and applied liberally to infested area. Do not contaminate feed or drinking water. Formulated with other ingredients and applied locally as screw-worm or ear tick remedies.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SILVEX*

PRINCIPAL FORMULATIONS: 59-65 and 67.9% emulsifiable concentrates including butoxy-ethanol, iso-octyl and propylene glycol butyl ether esters; 10.4% amine salt solution; 10.6% triethanolamine salt

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples		lbs. actual/A. 20 ppm	Preharvest drop. Apply 4 days before harvest drop normally begins. No pre-harvest limitations.
Pastures & Ranges		61 grams/A. 4.0	Concentrated spray application. Woody plants and brush. Apply in late spring thru season until 3 weeks before frost. Do not use on freshly seeded pastures or rangelands.
Pears		0.75 7.5 ppm	Mesquite control. Make an application in late spring when plants have leaves fully expanded. Postharvest application to trees immediately after harvest.
Prunes		20 ppm	Do not apply within 60 days of harvest.
Sugarcane		1.5 5.0 5.0	Use restricted to Florida. Postemergence broadcast application. Make second application before cane is 3 ½ feet tall. Use restricted to Hawaii. Preemergence application immediately after planting or ratooning and before cane emerges. Use restricted to Hawaii. Postemergence application as a directed spray to weeds in interline space. Do not spray cane. Do not apply more than twice to any one crop.

*2(2,4,5-trichlorophenoxy) propionic acid

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Replaces page issued 6-30-67

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SILVEX

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugarcane (cont.)		lbs. actual/A. 3.0	Use restricted to Louisiana. Preemergence to plant cane or after shaving and off-barring.
		3.0	Use restricted to Louisiana. Postemergence, repeat if not applied preemergence. Do not apply within 5 months before harvest for food or feed. Apply any time to cane grown for planting purposes only.
Rice		1.5	Treat 4-8 weeks after emergence of rice. If flooded, treat 7-9 weeks after seed- ing.
Lakes & Ponds		lbs. actual/A. ft. of water	
Submerged weeds		5	Apply in late spring or early summer as spray over surface of lake or pond.
Emerged Weeds		8	Apply as above or on emerged foliage. Avoid use in waters intended for irrigation, crop spraying or domestic and animal water supplies. Some fish kill may occur.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SIMAZINE*

PRINCIPAL FORMULATIONS: 50% and 80% wettable powders; 4%, 8% and 10% granular formulations; 25% paste

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa	15	1.6	Use restricted to Pacific Northwest States. Overall to established crop before weeds emerge between first killing frost and January 1. Alfalfa should be established at least one year. Do not graze treated areas for 30 days or cut for hay for 60 days.
Almonds		4.0	Single application to orchard floor before weeds emerge in orchards established one or more years. Do not apply to foliage or while nuts are on ground.
Apple		4.0	Apply to orchard floor anytime before weeds emerge. Apply only to orchards established one or more years. Do not apply to foliage or fruit. Do not apply to sandy soil.
Artichokes		4.0	Directed spray after last fall tillage around established crop plants.
Asparagus (established)		4.0	Apply in spring after disking and prior to weed and spear emergence. Repeat application at end of harvest season after weedy growth has been removed.
Avocados		4.0	Apply to orchard floor before weeds emerge following final preparation of the grove. Do not apply to foliage or fruit.
Bermudagrass	15	3.2	Overall to newly sprigged or established crop before weeds emerge from fall to spring. Do not graze treated areas for 60 days or cut for hay for 90 days.
Blackberries		4.0	Apply in the spring before weeds emerge and fruit set, or in fall after harvest, or use half dosage fall and spring. For new planting use half dosage. Do not apply to foliage or while fruit is present.

*2-chloro-4,6-bis (ethylamino)-s-triazine

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM ARSENITE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Tree Fruits: (Cont.)		lbs. actual/A. (as As_2O_3)	
Persimmons		1.0	Dry bait formulation. Apply to soil under trees. Do not allow bait to come in contact with trees or fruit.
Plums			
Pomegranate			
Prunes			
Quinces		3.0%	Sweet bait formulation. Apply one ounce per tree in a small container. Do not allow bait to come in contact with trees. Do not contaminate fruit.
Tangeloes			
Tangerines			
Vegetables:			
Asparagus		1.0	Dry bait formulation. Do not allow bait to come in contact with plants. Do not contaminate edible plant parts.
Beans			
Beets			
Blackeyed Peas			
Broccoli			
Brussels			
Sprouts			
Cabbage			
Cantaloupes			
Carrots			
Cauliflower			
Celery			
Collards			
Corn			
Cowpeas			
Cucumbers			
Eggplants			
Endive			
Garlic			
Horseradish			
Kale			
Kohlrabi			
Leeks			
Lettuce			
Melons			
Mustard Greens			
Okra			
Onions			
Parsnips			

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM ARSENITE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Vegetables: (cont.)		lbs. actual/A. (as As_2O_3)	
Peas		1.0	Dry bait formulation. Do not allow bait to come in contact with plants. Do not contaminate edible plant parts.
Peppers			
Pimientos			
Potatoes			
Pumpkins			
Radishes			
Rutabagas			
Salsify			
Shallots			
Spinach			
Squash			
(summer)			
Squash			
(winter)			
Sweet Potatoes			
Swiss Chard			
Tomatoes			
Turnips			
Watermelons			
Animals:			
Beef Cattle		0.25%	Dip formulated with other ingredients and applied for tick control.
Goats		(in water)	
Sheep			
			For official quarantine treatments only. Do not apply to dairy animals or to animals being finished for slaughter.
Aquatic Weeds		10 ppm	Apply uniformly over surface of ponds and lakes. Treat small areas of water at 5-7 day intervals to prevent fish suffocation. Keep children, pets, livestock, and poultry from treated areas.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM CHLORATE

PRINCIPAL FORMULATIONS: 59% soluble powder; 40% wettable powder; 12%, 20%, and 23.5% dusts; 4.7%, 18.2%, 18.5%, 19%, 22%, and 28% liquids; 30% granular (with metaborate)

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Beans (dry)		4.1	7 days. Preharvest defoliation.
Cotton		5.0	Preharvest defoliation and desiccation. Do not apply within 7 days of harvest. Do not graze treated areas or feed gin waste to livestock.
		261	Spot treatment for Johnson grass. Wet foliage and soil. Do not graze treated areas or feed gin waste to livestock.
Fallow land		771.0	Spot treatment. Wet foliage thoroughly. Keep animals off treated areas. Land may remain barren for 6 months after treatment.
Potatoes		16.0	Do not apply within 2 weeks of harvest.
Rice		6.0	Desiccant - Apply when rice is fully mature with panicles turned down and yellowish, 7-10 days before combining.
Sorghum		6.0	Desiccant - Apply when sorghum is fully mature 7-10 days before harvest.
Tomato		4.0	Plant desiccant. Apply after first picking. Repeat application after second picking if necessary.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

SODIUM CRESYLATE*

PRINCIPAL FORMULATIONS: 11.0% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Animals: Beef cattle Goats Sheep		0.1% (in water)	Formulated with other ingredients for use as a dip. Thoroughly drench animals. For official quarantine treatments only. Do not apply to dairy animals or to animals being finished for slaughter.

*Also see "Sodium Arsenite"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

THIRAM*

PRINCIPAL FORMULATIONS: 65% and 95% wettable powder; 40%, 50%, 60%, and 75% seed protectants; 2% paste; 10% dust

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Apples	7	10.4 lbs.act./A.	No time limitations.
Bananas	7 1 (in pulp)	0.16% (in water) 2.0% paste	Postharvest application to crowns and fruit following removal of stems, at the rate of 5 gallons per 100 trays (40 lbs. each). Brush application to cut stems and crowns.
Beans			
Lima		1.7 oz./100 lbs. 1.8 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
String or Snap		1.1 oz./100 lbs. 1.8 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Celery	7	0.25 lbs./ 1200 sq. ft. 2.0 lbs. act./A.	Transplant bed treatment only. 7 days. Remove residues by stripping, trimming, and washing.
Corn			
Field		1.5 oz./100 lbs. 1.65oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Sweet		1.5 oz./100 lbs. 4.0 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Cotton		1.5 oz./100 lbs. 2.0 lbs. act./A.	Soil and seed treatment in furrow at time of planting. Furrow treatment.

*Tetramethyl thiuram disulfide

USDA Summary of Registered Agricultural Pesticide Chemical Uses

THIRAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Cottonseed:			
Acid delinted		3.0 oz./100 lbs.	Seed treatment (dry or slurry). Do not use treated seed for food, feed, or oil purposes.
Cowpeas		1.1 oz./100 lbs. 1.0 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Millet		1.2 oz./100 lbs. 2.0 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food, feed, or oil.
Okra		3.0 oz./100 lbs.	Seed treatment. Do not use treated seed for food or feed.
Onions		2.0 lbs. act./A.	Furrow treatment.
Bulbs		8.0 oz./10 lbs.	Bulb treatment (pelletized).
Sets		8.0 oz./10 lbs.	Seed treatment (dry).
Peaches	7	6.5 lbs. act./A.	7 days.
Peanuts			
Shelled		2.25 oz./100 lbs.	Seed treatment (dry or slurry).
Unshelled		1.5 oz./100 lbs.	Seed treatment (dry). Do not use treated seed for food, feed, or oil.
Peas		1.7 oz./100 lbs. 1.8 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry).
Rice		3.0 oz./100 lbs. 1.7 oz./100 lbs.	Seed treatment (dry). Seed treatment (slurry). Do not use treated seed for food or feed.
Sesame		2.25 oz./100 lbs.	Seed treatment (dry or slurry). Do not use treated seed for food, feed, or oil.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

THIRAM

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sorghum		1.2 oz./100 lbs.	Seed treatment (dry).
		2.0 oz./100 lbs.	Seed treatment (slurry).
			Do not use treated seed for food or feed.
		4.0 lbs. act./A.	Preharvest spray directed to seed heads.
			Seed crop use. Do not use treated grain for feed, food, or oil. Do not graze treated fields.
Soybeans		1.1 oz./100 lbs.	Seed treatment (dry).
		1.8 oz./100 lbs.	Seed treatment (slurry).
			Do not use treated seed for food or feed.
		1.0 oz./bu.	Planter box seed treatment.
Strawberries	7	3.3 lbs. act./A.	Remove residues by washing if applications are made within 3 days of harvest.
Sweet potatoes		0.75 lb./7½ gals.	Preplanting root dip for ½ minute.
Tomatoes	7	2.5 lbs. act./A.	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE*

PRINCIPAL FORMULATIONS: 39%, 46.6% and 80% liquid concentrates (not emulsifiable); emulsifiable concentrates containing 4, 6, or 8 lbs. per gallon; 50% wettable powder; 10% to 20% dusts

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Alfalfa		2.5	Apply in early spring or after cutting before new growth is 4 inches tall.
		3.5	Do not feed treated forage to dairy animals or animals being finished for slaughter.
Apples	7	16.0	Do not apply after second cover spray or within 40 days of harvest.
Apricots	7	12.0	Do not apply after second cover spray or within 40 days of harvest.
Asparagus		5.0	Post-harvest treatment only.
Avocados		10.0	Do not apply after fruit starts to form. Do not feed treated forage to dairy animals or animals being finished for slaughter.
Bananas	3 (not more than 0.3 in pulp)	1.5	1 day.
		3 pints of 80% liquid concentrate/A.	Apply by aircraft as ultra low volume (undiluted) spray. Do not graze treated areas to dairy animals or animals being finished for slaughter.
Barley	5	3.5	Do not feed treated forage to dairy animals or animals being finished for slaughter. No restriction on the use of the grain.
Barley Seed		2.0 oz./bu.	Do not use as food or feed.

*Chlorinated camphene containing 67% to 69% chlorine

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Collards	7	2.0	14 days (dust). 28 days (spray).
		4.0	21 days (dust). 35 days (spray).
		8.0	Do not apply after edible parts start to form.
Corn	7	2.0	Granular formulations only. Do not feed ensilage from treated corn to dairy animals or animals being finished for slaughter. Do not graze dairy animals on treated stover. Do not graze meat animals on treated stover within 4 weeks of slaughter. No limitation on use of grain.
		6.0	Do not feed treated forage to dairy animals or animals being finished for slaughter. No limitation on use of grain.
Cotton	5 (cotton-seed)	4.0	Do not graze dairy animals or animals being finished for slaughter in fields treated late in the season.
		8.0	Do not apply after bolls open.
		4.0	Apply with DDT as an undiluted (low volume) spray by aircraft. Do not graze dairy animals or animals being finished for slaughter on treated areas. Do not feed treated cotton trash to dairy animals or to animals being finished for slaughter.
Cowpeas	7	3.0	No limitation on use of shelled peas as human food. Do not apply to cowpeas to be used as green snaps after pods begin to form. Do not feed treated vines to dairy animals or animals being finished for slaughter.
Cowpeas (seed)		2.0 oz./bu.	Do not use as food or feed.
Cranberries	7	5.0	Do not apply after fruit starts to form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

TOXAPHENE

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Cucurbits		3.0	Do not apply after edible parts start to form. May be injurious to plant growth.
Currants		4.0	Do not apply after fruit starts to form.
Deciduous Fruits & Nuts:			
Almonds		5.0	Wet or dry bait formulation. Do not apply broadcast when edible parts are present.
Apples			
Apricots			
Cashews		25.0	Soil application. Apply to trunk, scaffold branches, and soil when no fruit is present. Do not feed treated forage to dairy animals or animals being finished for slaughter. Single application.
Cherries			
Chestnuts			
Dates			
Figs			
Filberts			
Hazelnuts			
Hickory Nuts			
Nectarines			
Olives			
Peaches			
Pears			
Pecans			
Persimmons			
Plums			
Pomegranate			
Prunes			
Quinces			
Walnuts			
Dewberries	7	4.0	Do not apply after fruit begins to form.
Eggplants	7	3.0	5 days.
		6.0	Do not apply after edible parts start to form.
Endive		4.0	Do not apply after seedling stage.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,4,5-TRICHLOROPHENOXYACETIC ACID

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugarcane (cont.)		lbs. actual/A. 1	Postemergence (weeds in established cane). Apply over row when weeds are growing vigorously. Do not apply after cane is 2 feet tall.
Lakes Ponds		4 (with 20 lbs./A. 2,4-D as ester)	Broadcast application in early spring to summer. Do not use treated water for crop irrigation or livestock drinking water.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

2,3,6-TRICHLOROPHENYLACETIC ACID, SODIUM SALT*

PRINCIPAL FORMULATIONS: 16.8% liquid

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Sugarcane		lbs. acid equiv./acre	
		8.0	Preemergence application to plant cane. Do not use bagasse for feed or forage.
		6.0	Use restricted to Louisiana. Preemergence application in spring after shaving of fall planted cane not treated in fall. Do not use bagasse for feed or forage.
		3.6	Use restricted to Louisiana. Preemergence application in fall to plant cane and repeat in spring after shaving of fall planted cane. Do not use bagasse for feed or forage.

*Proprietary Name: "Fenac"

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC ARSENATE

PRINCIPAL FORMULATIONS: Technical material

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes		lbs. actual/A. 8.5	Formulated with other ingredients. No time limitations.
Tomatoes		2.25	Formulated with other ingredients. Remove residues at time of harvest by washing or brushing.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC DIMETHYLDITHIOCARBAMATE - MERCAPTOBENZOTHAZOLE (MIXTURE)

PRINCIPAL FORMULATIONS: Zinc salt (powder) containing 59.8% dimethyldithiocarbamate and 5.2% 2-mercaptobenzothiazole

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Almonds	0.1 (Ziram)	7.8	Up to petal fall.
Blueberries	7 (Ziram)	1.0	Do not apply after second cover spray or within 3 weeks of harvest.
Potatoes		3.25	Up to harvest.
Tomatoes	7 (Ziram)	3.25	5 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC ION + MANGANESE ETHYLENE BISDITHIOCARBAMATE COMPLEX

PRINCIPAL FORMULATIONS: 4.8%, 10% and 15% dusts; 80% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Apples	10	8.0	15 days. Do not graze treated areas.
Asparagus		1.6	Postharvest application to ferns.
Bananas	15 (not more than 2 in pulp)	3.2 3.2/100 gallon (0.38% suspension)	Aerial application only. Postharvest dip for cut banana hands.
Barley	25 (in or on straw) 20 (in milled feed frac- tions) 20 (in bran) 5 (in or on grain) 1 (in flour)	1.6	26 days. Not more than 3 applications per season. Do not graze treated areas within 26 days after treatment.
Carrots	2	1.6	7 days. Do not use tops for food or feed purposes.
Celery	10	1.6	7 days.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC ION + MANGANESE ETHYLENE BISDITHIOCARBAMATE COMPLEX

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Corn field pop sweet	15 (in or on fodder or forage) 0.5 (in or on grain including popcorn, and fresh corn including sweet corn) (kernels plus cobs with husks removed)	1.2	7 days. Use restricted to Florida.
Cotton	0.5 (in or on seed)	1.6	Use restricted to Southwestern states. Do not apply after bolls open. Do not graze treated areas or feed gin trash to live-stock.
		1.2	In-furrow or planter box application only.
Crabapples	10	8.0	15 days. Do not graze treated areas.
Cranberries	7	4.8	30 days.
Cucumbers	7	2.4	No time limitations.
Fennel	10	1.6	7 days.
Grapes	7 (in or on fresh fruit) 28 (in raisins)	3.2	In California do not apply after fruit is set. In other areas do not apply within 66 days of harvest.
Melons	7 (zero in edible parts)	2.4	No time limitations.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC ION + MANGANESE ETHYLENE BISDITHIOCARBAMATE COMPLEX

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Oats	25 (in or on straw) 20 (in milled feed frac- tions) 20 (in bran) 5 (in or on grain) 1 (in flour)	1.6	26 days. Not more than 3 applications per season. Do not graze treated areas within 26 days after treatment.
Onions(dry bulb)		2.4	7 days. Do not apply to exposed bulbs.
Papayas	10 (whole fruit) (zero in edible pulp)	2.0	No time limitations.
Peanuts	65 (in or on vine hay) 0.5 (in or on nuts)	1.6	Do not feed vine hay to livestock.
		1.2	14 days, where vine hay is to be fed to livestock.
Pears	10	8.0	15 days. Do not graze treated areas.
Pecans		15.0	60 days. Do not graze livestock on treated areas.
Peppers		1.8	Do not apply after fruit buds form.
Pineapples		16.0	Do not apply after fruit buds form.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC ION + MANGANESE ETHYLENE BISDITHIOCARBAMATE COMPLEX

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Potatoes		lbs. actual/A. 1.6 0.8 lb./100 lbs. (dust) or 1.0 lb./50 gallons (dip)	No time limitations. Seed piece treatment only. Do not use treated seed pieces for food or feed purposes.
Pumpkins		2.4	Do not apply after edible parts begin to form.
Quinces	10	8.0	15 days. Do not graze treated areas.
Rice		3.2 oz./100 lbs.	Seed treatment only. Do not use treated seed for food or feed purposes.
Rye	25 (in or on straw) 20 (in milled feed frac- tions) 20 (in bran) 5 (in or on grain) 1 (in flour)	1.6	26 days. Not more than 3 applications per season. Do not graze treated areas within 26 days after treatment.
Squash (winter)		2.4	Do not apply after edible parts begin to form.
(summer)	7	2.4	No time limitations.
Sugar beets	65 (in or on tops) 2 (in or on beets)	1.6 2.4	14 days. No feeding limitations. 10 days. Do not feed treated tops to live- stock.

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC ION + MANGANESE ETHYLENE BISDITHIOCARBAMATE COMPLEX

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
		lbs. actual/A.	
Tomatoes	7	2.4	No time limitations.
Wheat	25 (in or on straw)	1.6	26 days. Not more than 3 applications per season. Do not graze treated areas within 26 days after treatment.
	20 (in milled feed frac- tions)		
	20 (in bran)		
	5 (in or on grain)		
	1 (in flour)		

USDA Summary of Registered Agricultural Pesticide Chemical Uses

ZINC SULFATE MONOHYDRATE

PRINCIPAL FORMULATIONS: 89% wettable powder

USE	TOLERANCE (ppm)	DOSAGE	LIMITATIONS
Peaches		lbs. actual/A. 43.0	No time limitations.

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